

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Accession # 777707  
11/1279

Requester's Full Name: Sabrina Ozar Examiner #: 74141 Date: 2/10/04  
Art Unit: 1616 Phone Number 30-0622 Serial Number: 10/609083  
Mail Box and Bldg/Room Location: 4C 70 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Absorbent Article with Skin Care Compositio

Inventors (please provide full names): George Endel Decker et al.

Earliest Priority Filing Date: 371 of PCT/4500/13842 5/19/2002

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for the absorbent article as in cl 1

Please see attached Sheets

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| Searcher Phone #:            |  | AA Sequence (#) | Dialog                            |
| Searcher Location:           |  | Structure (#)   | Questel/Orbit                     |
| Date Searcher Picked Up:     |  | Bibliographic   | Dr. Link                          |
| Date Completed:              |  | Litigation      | Lexis/Nexis                       |
| Searcher Prep & Review Time: |  | Fulltext        | Sequence Systems                  |
| Clerical Prep Time:          |  | Patent Family   | WWW/Internet                      |
| Online Time:                 |  | Other           | Other (specify)                   |

# Inventor Search

Qazi 10/009, 083

12/02/2004

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L10 ANSWER 1 OF 5 HCPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2003:334402 HCPLUS  
 DOCUMENT NUMBER: 138:343474  
 TITLE: **Skin care** compositions comprising  
 low concentrations of skin treatment agents  
 INVENTOR(S): **Warren, Raphael; Blevins, John Michael;**  
**Klofta, Thomas James; Minoguchi, Ryo;**  
**Pennington, Regina Leigh; Staudigel, James Anthony;**  
**Tanner, Paul Robert; Vatter, Michael Lee**  
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA  
 SOURCE: U.S. Pat. Appl. Publ., 16 pp., Cont.-in-part of U.S.  
 Ser. No. 968,154.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| US 2003082219   | A1   | 20030501 | US 2002-152924  | 20020521 |
| WO 2003028776   | A1   | 20030410 | WO 2002-US31135 | 20021001 |
| W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,<br>CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES,<br>FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,<br>KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,<br>MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK,<br>SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW,<br>AM, AZ, BY, KG |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,<br>CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,<br>PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,<br>NE, SN, TD, TG   |      |          |                 |          |
| US 2003206943   | A1   | 20031106 | US 2003-444241  | 20030523 |
| PRIORITY APPLN. INFO.: US 2001-968154 A2 20011001<br>US 2002-152924 A 20020521  |      |          |                 |          |

AB **Skin care** compns. that are suitable for application on  
**absorbent** articles such as panty liners and interlabial products  
 for delivery of the **skin care** compns. effective in  
 preventing and/or reducing skin disorders related to erythema, malodor,  
 and skin bacterial infections onto an external or internal area of the  
 skin are described. The composition comprises (a) about 0.001-0.1% by weight  
 of

hexamidine; (b) about 0.001-10% by weight of zinc oxide; (c) about 0.01-10%  
 by weight of niacinamide; and (d) a carrier. For example, a **skin**  
**care** composition carrier system contained petrolatum 78.1%, behenyl  
 alc. 8.7%, Beheneth-10 10.0%, and fumed silica 3.2%. A **skin**  
**care** composition was prepared from 97.1% of the carrier system, mixed  
 with 0.7% ZnO Premix, 0.1% hexamidine, 0.5% panthenol, 0.1% glycerin, 1.0%  
 niacinamide, and 0.5% chamomile extract

IC ICM A61K033-32  
 ICS A61K031-70; A61K007-00; A61K031-155; A61K009-70  
 NCL 424401000; 424443000; 424642000; 514023000; 514637000  
 CC 62-4 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 63  
 ST hexamidine niacinamide zinc oxide **skin care** medical  
**absorbent**  
 IT Alcohols, biological studies.

- Fatty acids, biological studies  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(C12-24; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Alcohols, biological studies  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(C16-18; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Medical goods  
(**absorbents; skin care** compns. containing  
hexamidine, niacinamide, and zinc oxide for application on  
**absorbent** articles)
- IT Waxes  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(esparto wax; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Fatty acids, biological studies  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(esters; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Chamomile  
(exts.; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Amides, biological studies  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(fatty; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Alcohols, biological studies  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(lower, C1-6; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT **Absorbents**  
(medical; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Hydrocarbon waxes, biological studies  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(microcryst.; **skin care** compns. containing hexamidine,  
niacinamide, and zinc oxide for application on **absorbent**  
articles)
- IT Particle size  
(of zinc oxide; **skin care** compns. containing  
hexamidine, niacinamide, and zinc oxide for application on  
**absorbent** articles)
- IT Waxes  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);

- BIOL (Biological study); USES (Uses)  
 (ouricury; **skin care** compns. containing hexamidine,  
 niacinamide, and zinc oxide for application on **absorbent**  
 articles)
- IT Medical goods  
 (panty liners; **skin care** compns. containing hexamidine,  
 niacinamide, and zinc oxide for application on **absorbent**  
 articles)
- IT Alcohols, biological studies  
 RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (polyhydric; **skin care** compns. containing hexamidine,  
 niacinamide, and zinc oxide for application on **absorbent**  
 articles)
- IT Waxes  
 RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (rezowax; **skin care** compns. containing hexamidine,  
 niacinamide, and zinc oxide for application on **absorbent**  
 articles)
- IT Medical goods  
 (sanitary napkins; **skin care** compns. containing  
 hexamidine, niacinamide, and zinc oxide for application on  
**absorbent** articles)
- IT Beeswax  
 Cosmetics  
 (**skin care** compns. containing hexamidine, niacinamide,  
 and zinc oxide for application on **absorbent** articles)
- IT Bentonite, biological studies  
 Candelilla wax  
 Carnauba wax  
 Ceresin  
 Glycols, biological studies  
 Lanolin  
 Paraffin waxes, biological studies  
 Petrolatum  
 RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (**skin care** compns. containing hexamidine, niacinamide,  
 and zinc oxide for application on **absorbent** articles)
- IT Waxes  
 RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (spermaceti; **skin care** compns. containing hexamidine,  
 niacinamide, and zinc oxide for application on **absorbent**  
 articles)
- IT 7631-86-9, Fumed silica, biological studies  
 RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (colloidal; **skin care** compns. containing hexamidine,  
 niacinamide, and zinc oxide for application on **absorbent**  
 articles)
- IT 9013-79-0, Esterase  
 RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use);  
 BIOL (Biological study); USES (Uses)  
 (diesterase; **skin care** compns. containing hexamidine,  
 niacinamide, and zinc oxide for application on **absorbent**  
 articles)
- IT 50-70-4, Sorbitol, biological studies    50-81-7, Vitamin C, biological  
 studies    52-89-1, Cysteine hydrochloride    56-81-5, Glycerine, biological

studies 59-51-8, Methionine 79-41-4D, Methacrylic acid, esters, polymers 81-13-0, Panthenol 97-59-6, Allantoin 98-92-0, Niacinamide 100-42-5D, Styrene, copolymers with methacrylic esters 144-55-8, Sodium bicarbonate, biological studies 368-43-4, Phenylsulfonyl fluoride 557-05-1, Zinc stearate 661-19-8, Behenyl alcohol 1314-13-2, Zinc oxide, biological studies 1327-43-1, Magnesium aluminum silicate 1343-88-0, Magnesium silicate 1344-95-2, Calcium silicate 3811-75-4, Hexamidine 8011-96-9, Calamine 9000-92-4, Amylase 9001-62-1, Lipase 9002-13-5, Urease 9004-06-2, Elastase 9005-00-9, Steareth-2 9026-81-7, Nuclease 9031-96-3, Peptidase 12173-47-6, Hectorite 14807-96-6, Talc, biological studies 21645-51-2, Aluminum hydroxide, biological studies 26636-40-8, Beheneth-10 37259-58-8, Serine protease 37353-41-6, Cysteine protease 39444-30-9, Castrol wax 78169-47-8, Aspartyl protease 81669-70-7, Metalloprotease 133856-63-0, Guanidinobenzoic acid

RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(skin care compns. containing hexamidine, niacinamide, and zinc oxide for application on absorbent articles)

IT 9002-88-4, Polyethylene

RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(wax; skin care compns. containing hexamidine, niacinamide, and zinc oxide for application on absorbent articles)

L10 ANSWER 2 OF 5 HCPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:42142 HCPLUS

DOCUMENT NUMBER: 138:95672

TITLE: Film-forming compositions for protecting skin from body fluids

INVENTOR(S): Klofta, Thomas James; Staudigel, James Anthony;

Deckner, George Endel

PATENT ASSIGNEE(S): The Procter & Gamble Company, USA

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2003004070   | A1   | 20030116 | WO 2002-US19510 | 20020621 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| US 2003077307   | A1   | 20030424 | US 2001-898880  | 20010703 |

PRIORITY APPLN. INFO.: US 2001-898880 A 20010703

AB The present invention relates to a film-forming barrier composition useful for protecting the skin from body fluids, such as urine, feces, and menses. The composition comprises 1-90% of a skin conditioning agent, 15-50% of a viscosity enhancing agent, 1-20% of an oleophilic film-forming agent, and

optionally 0.01-15% of **skin care** ingredients for treating or maintaining skin health. The composition may be applied to the skin by suitable delivery vehicles, such as **absorbent** articles or components thereof, sheet materials, pads, bandages, sponges, foam pads, pumps, and sprays depending on the viscosity of the composition. For example, a composition contained petrolatum 48.9%, lanolin oil (Vigilan) 12.0%, acetylated lanolin (Fancol Acel) 12%, behenyl alc./stearyl alc. mixture (Lanette 22) 21.0%, C30-38 olefin/isopropyl maleate/maleic anhydride copolymer (Performa V 1608) 6.0%, and vitamin E acetate 0.1%.

- IC ICM A61L015-42  
 CC 63-7 (Pharmaceuticals)  
 Section cross-reference(s): 62  
 ST film forming barrier compn medical article skin body fluid  
 IT Medical goods  
     (**absorbents**; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Lanolin  
     RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (acetate, Fancol Acel; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Cosmetics  
     (conditioners; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Cosmetics  
     (lotions; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Body fluid  
 Disposable diapers  
 Ozocerite  
     (medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Petrolatum  
 Polysiloxanes, biological studies  
     RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT **Absorbents**  
     (medical; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Hydrocarbon waxes, biological studies  
     RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (microcryst.; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Lanolin  
     RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (oil, Vigilan; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT Hydrocarbon oils  
     RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (white oils, Hydrobrrite 550PO; medical **absorbent** articles with film-forming barrier compns. for protecting skin from body fluids)  
 IT 7631-86-9, Fumed silica, biological studies  
     RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (colloidal; medical **absorbent** articles with film-forming

barrier compns. for protecting skin from body fluids)  
IT 58-95-7, Vitamin E acetate 81-13-0, D-Panthenol 112-92-5, Stearyl alcohol 515-69-5, Bisabolol 661-19-8, Lanette 22 1314-13-2, Zinc oxide, biological studies 9002-88-4, Polyethylene 28211-18-9, Ganex V 220 29894-35-7, Hexalyn PR 15 42131-25-9, Salacos 99 42557-10-8, Dow Corning 200 135668-52-9, Dermacryl 79 157148-07-7, Ganex WP 660 344588-45-0, Glossamer L 6600 484688-67-7, Performa V 1608  
RL: COS (Cosmetic use); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(medical **absorbent** articles with film-forming barrier compns.  
for protecting skin from body fluids)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:452834 HCAPLUS

DOCUMENT NUMBER: 135:50905

TITLE: Compositions for efficient release of skin active ingredients from oleaginous carriers

INVENTOR(S): Osborne, Scott Edward; **Deckner, George Endel**  
; Klofta, Thomas James; Vega, Victor Nicholas

PATENT ASSIGNEE(S): Procter + Gamble Company, USA

SOURCE: PCT Int. Appl., 35 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO.   | DATE     |
|------------------------|--|----------|-------------------|----------|
| WO 2001043717          | A1   | 20010621 | WO 2000-US33741   | 20001213 |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,<br>CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI,<br>GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,<br>KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,<br>NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR,<br>TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU,<br>TJ, TM |          |                   |          |
| RW:                    | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,<br>DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,<br>BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |          |                   |          |
| EP 1237535             | A1   | 20020911 | EP 2000-984288    | 20001213 |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  |          |                   |          |
| JP 2003516955          | T2   | 20030520 | JP 2001-544656    | 20001213 |
| PRIORITY APPLN. INFO.: |  |          | US 1999-466343 A  | 19991217 |
|                        |  |          | WO 2000-US33741 W | 20001213 |

AB The present invention relates to a novel composition for efficiently releasing hydrophilic or water-soluble **skin care** actives from an oleaginous composition. The substantially oleaginous composition of the present invention comprises: (1) at least one **skin care** active; (2) a release agent having an HLB of at least about 3; and (3) a hydrophobic barrier protectant. The novel release composition may be topically applied to skin using a dispensing means such as an **absorbent** article, a wipe, a bandage, a pad, a canister, a stick, an aerosol dispenser, a sprayer, and the like. For example, a release composition representative of the present invention contained (by weight) hexamidine diisethionate 0.1%, Beheneath-10 6.3%, petrolatum 72.6%, behenyl alc. 17.7%, and fumed silica 3.3%. The composition may be incorporated directly

onto the surface of an **absorbent** article for the release of composition for a period of at least about 4 days. The release is enhanced by exposing the composition to moisture in the surrounding. At the end of the 4 day period, the skin in the general area contacted by the lotion-treated portion of the article shows visible improvement, such as reduction in redness.

- IC ICM A61K007-48  
 ICS A61L015-42  
 CC 62-4 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 63  
 ST hydrophilic **skin care** active oleaginous carrier cosmetic; hexamidine **skin care** active oleaginous carrier cosmetic; medical **absorbent** hydrophilic **skin care** active release  
 IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (C14-60; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Alcohols, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (C20-40, ethoxylated, Performathox 450; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Balsams  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (Peru; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Medical goods  
     (**absorbents**; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Cosmetics  
     (aerosols; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (alkoxylated, C12-50; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Glycosides  
 Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (alkyl; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (alkylphenyl or Ph group-containing; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Natural products, pharmaceutical  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (aloe; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)  
 IT Fats and Glyceridic oils, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

## (Uses)

(animal, hydrogenated; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Fats and Glyceridic oils, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(animal; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Cotton fibers

(balls; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Medical goods

(bandages; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Containers

(canisters; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Oatmeal

(colloidal; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Fatty acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(esters, C12-50, alkoxylated; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Fatty acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(esters, C14-60; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Fatty acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(esters, emollients; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Polyoxyalkylenes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fatty amido group-terminated, C12-50; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Alcohols, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fatty, C14-60; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Alcohols, biological studies

Amides, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fatty, alkoxylated, C12-50; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Alcohols, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fatty, ethers; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Polyesters, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hydroxy-terminated; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Cosmetics  
(lotions; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Absorbents  
(medical; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Surfactants  
(nonionic; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Antibiotics

Antimicrobial agents

Chelating agents

Cosmetics

Humectants

Hydrophile-lipophile balance value

Paper

Skin preparations (pharmaceutical)

Textiles

Yeast  
(oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Glycerides, biological studies

Kaolin, biological studies

Paraffin waxes, biological studies

Petrolatum

Protein hydrolyzates

Vitamins

Waxes

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Medical goods  
(pads; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Cosmetics  
(rollers; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Medical goods  
(sponge; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Cosmetics  
(sprays; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Cosmetics  
(sticks; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Polymers, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(surfactants; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Fats and Glyceridic oils, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(vegetable, hydrogenated; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Fats and Glyceridic oils, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (vegetable; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT Medical goods  
 (wipes; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT 7631-86-9, Silica, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (fumed; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT 9001-92-7, Protease  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (inhibitors; oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

IT 59-51-8, Methionine 60-00-4, Ethylenediaminetetraacetic acid, biological studies 67-97-0, Cholecalciferol 83-86-3, Phytic acid 102-76-1, Triacetin 112-92-5, Stearyl alcohol 368-43-4, Phenylsulfonyl fluoride 557-34-6, Zinc acetate 659-40-5, Hexamidine diisethionate 661-19-8, Behenyl alcohol 1314-13-2, Zinc oxide, biological studies 1406-18-4, vitamin E 3486-35-9, Zinc carbonate 3811-75-4, Hexamidine 9004-34-6, Cellulose, biological studies 9005-25-8, Starch, biological studies 9012-76-4, Chitosan 11103-57-4, Vitamin A 12441-09-7D, Sorbitan, esters 14807-96-6, Talc, biological studies 26636-40-8, Beheneth 10 106392-12-5, Pluronic L43  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (oleaginous compns. for efficient release of hydrophilic **skin care** active ingredients)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 5 HCPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:257841 HCPLUS  
 TITLE: **Absorbent** article having barrier sheet  
 against the migration of the **skin care** composition  
 INVENTOR(S): Gray, Brian Francis; Hamachi, Kiyoe;  
 Minoguchi, Ryo; Niihara, Kaoru  
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA  
 SOURCE: PCT Int. Appl.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.    | KIND   | DATE     | APPLICATION NO. | DATE     |
|---------------|--|----------|-----------------|----------|
| WO 2001024748 | A1   | 20010412 | WO 1999-US22843 | 19991001 |
| W:            | AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                 |          |
| RW:           | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |          |                 |          |

|  |    |          |                |          |
|--|----|----------|----------------|----------|
| AU 9962818   | A1 | 20010510 | AU 1999-62818  | 19991001 |
| BR 9917513   | A  | 20020611 | BR 1999-17513  | 19991001 |
| EP 1227776   | A1 | 20020807 | EP 1999-950089 | 19991001 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO, MK, CY, AL |    |          |                |          |
| JP 2003510164  | T2 | 20030318 | JP 2001-527748 | 19991001 |

PRIORITY APPLN. INFO.: WO 1999-US22843 A 19991001

AB An **absorbent** article having a barrier sheet against a **skin care** composition is disclosed. The **absorbent** article has a body surface and a garment surface. The **absorbent** article comprises an **absorbent** core. At least a portion of the **absorbent** article has a **skin care** composition provided thereon. The **absorbent** article has a barrier sheet. The barrier sheet is treated to reduce the migration of the **skin care** composition therethrough.

IC ICM A61F013-15

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:824143 HCAPLUS

TITLE: **Absorbent article with skin care composition**

INVENTOR(S): Gray, Brian Francis; Minoguchi, Ryo

PATENT ASSIGNEE(S): The Procter & Gamble Co., USA

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2000069483   | A1   | 20001123 | WO 1999-US22842 | 19991001 |
| W: AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR, KZ, LC, LK, LR, LS, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM   |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| WO 2000069482   | A1   | 20001123 | WO 1999-US11372 | 19990521 |
| W: AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| WO 2000069481   | A1   | 20001123 | WO 1999-US11374 | 19990521 |
| W: AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU,  |      |          |                 |          |

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 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
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 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 AU 9941981 A1 20001205 AU 1999-41981 19990521  
 AU 9941983 A1 20001205 AU 1999-41983 19990521  
 AU 9965049 A1 20001205 AU 1999-65049 19991001  
 EP 1178846 A1 20020213 EP 1999-953011 19991001  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO  
 BR 9917302 A 20020618 BR 1999-17302 19991001  
 JP 2003524470 T2 20030819 JP 2000-617943 19991001  
 WO 2000069484 A1 20001123 WO 2000-US13842 20000519  
 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,  
 CU, CZ, CZ, DE, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
 LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 WO 2000069485 A1 20001123 WO 2000-US13851 20000519  
 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,  
 CU, CZ, CZ, DE, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
 LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
 RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
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 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 TW 446556 B 20010721 TW 2000-89109675 20000519  
 EP 1178845 A1 20020213 EP 2000-936104 20000519  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO  
 JP 2003527147 T2 20030916 JP 2000-617944 20000519  
 PRIORITY APPLN. INFO.: WO 1999-US10986 A 19990519  
 WO 1999-US11330 A 19990521  
 WO 1999-US11372 A 19990521  
 WO 1999-US11374 A 19990521  
 WO 1999-US22842 W 19991001  
 WO 2000-US13842 W 20000519

AB An **absorbent** article having a **skin care**  
 composition is disclosed. The **absorbent** article has a body  
 surface and a garment surface. The **absorbent** article comprises  
 a topsheet disposed at the body surface, a backsheet disposed at the  
 garment surface, and an **absorbent** core disposed therebetween.  
 At least a portion of the **absorbent** article is provided with a  
**skin care** composition. The **absorbent** article  
 has a preferential acquisition zone and a **skin care**  
 zone. The preferential acquisition zone covers at least a portion of the  
 vulva of the wearer when the **absorbent** article is applied on the  
 wearer's body. The **skin care** zone is provided with  
 the **skin care** composition of greater basis weight than  
 the preferential acquisition zone.

IC ICM A61L015-34  
 ICS A61F013-15

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Qazi 10/009,083

12/02/2004

Qazi 10/009,083

12/02/2004

|  |                  |               |
|--|------------------|---------------|
| => log hold                                |                  |               |
| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST                        | 58.33            | 58.54         |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | -3.47            | -3.47         |

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 15:25:59 ON 12 FEB 2004

=> d his ful

(FILE 'HOME' ENTERED AT 15:14:39 ON 12 FEB 2004)

FILE 'HCAPLUS' ENTERED AT 15:14:56 ON 12 FEB 2004

E DECKNER GEORGE E/AU

L1 82 SEA ABB=ON ("DECKNER GEORGE E"/AU OR "DECKNER GEORGE ENDEL"/AU  
OR "DECKNER GEORGE ENDELL"/AU)  
E GRAY BRIAN F/AU

L2 35 SEA ABB=ON ("GRAY BRIAN DAVID"/AU OR "GRAY BRIAN E"/AU OR  
"GRAY BRIAN F"/AU OR "GRAY BRIAN FRANCIS"/AU)  
E MINOGUCHI RYO/AU

L3 7 SEA ABB=ON ("MINOGUCHI R"/AU OR "MINOGUCHI RYO"/AU)  
E NIIHARA KAORU/AU

L4 8 SEA ABB=ON "NIIHARA KAORU"/AU  
E SCHMIDT ROBERT R/AU

L5 11 SEA ABB=ON "SCHMIDT ROBERT RAYMOND"/AU  
E WARREN RAPHAEL/AU

L6 26 SEA ABB=ON "WARREN RAPHAEL"/AU

L7 0 SEA ABB=ON L1 AND L2 AND L3 AND L4 AND L5 AND L6

L8 163 SEA ABB=ON L1 OR L2 OR L3 OR L4 OR L5 OR L6

L9 22 SEA ABB=ON L8 AND ?SKIN?(W)?CARE?  
*Inventor search*

L10 5 SEA ABB=ON L9 AND ?ABSORB?

L11 7179 SEA ABB=ON (?BODY? OR ?SKIN?) (4A) (?CONTACT? OR ?TOUCH?)

L12 2297 SEA ABB=ON L11 AND (?SURFAC? OR ?BOUND?)

L13 16 SEA ABB=ON L12 AND ?ABSORB?(3A)?CORE?

L14 3 SEA ABB=ON L13 AND (?SKIN? OR ?DERM? OR ?CUTAN?) (3A)(?CARE?  
OR ?IMPROV? OR ?TREAT? OR ?BENEFIT?)

L15 0 SEA ABB=ON L13 AND ?SEMISOLID?

L16 1 SEA ABB=ON L13 AND ?SEMI?

L17 1 SEA ABB=ON L13 AND ?SOLID?

L18 0 SEA ABB=ON L13 AND ?VISCOS?

L19 16 SEA ABB=ON L13 OR L14 OR L15 OR L16 OR L17 OR L18 *16 hits from CPlus*

FILE 'MEDLINE, EMBASE, RAPRA, PLASPEC, KOSMET, JAPIO, JICST-EPLUS,  
BIOSIS, WPIDS' ENTERED AT 15:45:45 ON 12 FEB 2004

L20 123 SEA ABB=ON L19

L21 121 DUP REMOV L20 (2 DUPLICATES REMOVED)

L22 11 SEA ABB=ON L21 AND (SKIN? OR DERM? OR CUTAN?) (W) (CARE? OR  
IMPROV? OR TREAT?)(W) (COMPOSIT? OR SUBSTANC? OR MATERIAL? OR  
PRODUCT?) *11 hits from "Other databases"*

=> q que stat 119

L11 7179 SEA FILE=HCAPLUS ABB=ON (?BODY? OR ?SKIN?) (4A) (?CONTACT? OR  
?TOUCH?)

L12 2297 SEA FILE=HCAPLUS ABB=ON L11 AND (?SURFAC? OR ?BOUND?)

L13 16 SEA FILE=HCAPLUS ABB=ON L12 AND ?ABSORB?(3A) ?CORE?

L14 3 SEA FILE=HCAPLUS ABB=ON L13 AND (?SKIN? OR ?DERM? OR ?CUTAN?) (3A)  
(?CARE? OR ?IMPROV? OR ?TREAT? OR ?BENEFIT?)

L15 0 SEA FILE=HCAPLUS ABB=ON L13 AND ?SEMISOLID?

L16 1 SEA FILE=HCAPLUS ABB=ON L13 AND ?SEMI?

L17 1 SEA FILE=HCAPLUS ABB=ON L13 AND ?SOLID?

L18 0 SEA FILE=HCAPLUS ABB=ON L13 AND ?VISCOS?

L19 16 SEA FILE=HCAPLUS ABB=ON L13 OR L14 OR L15 OR L16 OR L17 OR  
L18

=> d ibib abs 119 1-16

L19 ANSWER 1 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2004:58125 HCPLUS  
 TITLE: Absorbent article having a graphic visible through  
**body contacting surface**  
 INVENTOR(S): Miura, Tsunetoshi; Ito, Kensuke; Sasaki, Akiko;  
 Nakao, Yoshiko; Kondo, Shuri; Tomi, Koichi  
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA  
 SOURCE: PCT Int. Appl.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2004006818   | A1   | 20040122 | WO 2003-US21363 | 20030709 |
| W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,<br>CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES,<br>FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,<br>KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,<br>MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,<br>SK, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU,<br>ZA, ZM, ZW, AM |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,<br>CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,<br>NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,<br>GW, ML, MR, NE, SN, TD, TG   |      |          |                 |          |
| US 2004015145   | A1   | 20040122 | US 2003-603522  | 20030625 |

PRIORITY APPLN. INFO.: US 2002-396115P P 20020716

AB The invention is directed to an absorbent article, which is preferably a sanitary napkin or a pantiliner, comprising: a **body contacting layer**; a garment **contacting layer**; and an **absorbent core** disposed between the **body contacting layer** and the garment **contacting layer**. The **absorbent core** has a **core edge**. The **core edge** defines a **core region** within the **core edge** and an **outer region** outside the **core region**. The **body contacting layer** and the **garment contacting layer** extend outward into the **outer region** and joined together in the **outer region**. In one aspect of the invention, the **garment contacting layer** has a graphic printed on the **body facing surface** at least in a portion of the **outer region**. In another aspect of the invention, the **body contacting layer** has a graphic printed on the **garment facing surface** at least in a portion of the **outer region**. The **body contacting layer** has a first light transmittance so that the graphic can be seen through the **body contacting layer** in the **outer region**. Since users (or women) can see the graphic through the **body contacting layer**, the absorbent article can provide an emotional benefit to women before uses, and thus decrease women's melancholic mood.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2003:985940 HCPLUS

TITLE: Transfer layer of liquid fluids and an absorbent article incorporating the same  
 INVENTOR(S): Suarez, Claudio Miguel

PATENT ASSIGNEE(S): Carl Freudenberg Kg, Germany  
 SOURCE: PCT Int. Appl.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2003103551   | A1   | 20031218 | WO 2003-EP5848  | 20030604 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO,<br>CR, CU, CZ, DK, DM, DZ, EC, EE, GD, GE, GH, GM, HR, HU, ID, IL,<br>IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD,<br>MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, RO, RU, SC, SD,<br>SG, SK, SL, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,<br>ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,<br>CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,<br>NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,<br>GW, ML, MR, NE, SN, TD, TG |      |          |                 |          |

PRIORITY APPLN. INFO.: AR 2002-102203 A 20020611  
 AB A transfer layer of liquid fluids and an absorbent article incorporating the same, like a diaper, a sanitary napkin or a similar product, which has a permeable cover below which there is disposed a nonwoven transfer layer of liquid fluids followed beneath by an **absorbent core** which retains the fluids. In the transfer layer there is provided a top layer of predominating hydrophobic properties and an bottom layer of predominating hydrophilic properties. The transfer layer has an embossed **surface configuration**, with channels formed by compressed nonwoven streaks forming transversal peaks and valleys extending in longitudinal direction along the transfer layer. The lower thickness of the transfer layer resulting from the compressed stretches which form valleys, provide the channels with a predominating hydrophilicity, which facilitates the quick liquid transfer towards the **absorbent core**, while the higher thickness of the transfer layer in the peaks provide it with a predominating hydrophobia, which impedes the liquid to return from the **absorbent core** to the permeable cover, thus reducing the index of remnant humidity in the zone of **contact** with the user's **skin**, even if the **absorbent core** is submitted to pressure.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2003:796381 HCAPLUS  
 DOCUMENT NUMBER: 139:297071  
 TITLE: Topsheet for **contacting** hydrous **body** tissues and absorbent device with such a topsheet  
 INVENTOR(S): Bewick-Sonntag, Christopher Philip; Kirkbride, Tana Marie; Osborn, Thomas Ward; Ahr, Nicholas Albert  
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA  
 SOURCE: U.S. Pat. Appl. Publ., 50 pp., Cont.-in-part of U.S. Ser. No. 637,440.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 10  
 PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO.  | DATE        |
|------------------------|--|----------|------------------|-------------|
| US 2003191442          | A1   | 20031009 | US 2001-905804   | 20010713    |
| ZA 9810374             | A  | 19990707 | ZA 1998-10374    | 19981112    |
| CA 2308407             | AA   | 19990527 | CA 1998-2308407  | 19981116    |
| EP 1030637             | A1   | 20000830 | EP 1998-959460   | 19981116    |
| EP 1030637             | B1   | 20030305 |                  |             |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI   |          |                  |             |
| BR 9815313             | A  | 20001010 | BR 1998-15313    | 19981116    |
| JP 2001522702          | T2   | 20011120 | JP 2000-520732   | 19981116    |
| AU 745446              | B2   | 20020321 | AU 1999-15253    | 19981116    |
| AT 233527              | E  | 20030315 | AT 1998-959460   | 19981116    |
| ES 2193591             | T3   | 20031101 | ES 1998-959460   | 19981116    |
| TW 416847              | B  | 20010101 | TW 1998-87118879 | 19990126    |
| US 6635799             | B1   | 20031021 | US 2000-637440   | 20000811    |
| WO 2002013750          | A2   | 20020221 | WO 2001-US24438  | 20010803    |
| WO 2002013750          | A3   | 20021017 |                  |             |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                  |             |
| RW:                    | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                  |             |
| AU 2001079178          | A5   | 20020225 | AU 2001-79178    | 20010803    |
| EP 1311216             | A2   | 20030521 | EP 2001-957431   | 20010803    |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR   |          |                  |             |
| BR 2001013196          | A  | 20030916 | BR 2001-13196    | 20010803    |
| PRIORITY APPLN. INFO.: |  |          | US 2000-637440   | A2 20000811 |
|                        |  |          | US 1997-970510   | A 19971114  |
|                        |  |          | US 1998-71425    | A2 19980501 |
|                        |  |          | WO 1998-US24390  | W 19981116  |
|                        |  |          | US 2001-905804   | A 20010713  |
|                        |  |          | WO 2001-US24438  | W 20010803  |

AB An absorbent article insertable into the interlabial space of a female wearer comprising an **absorbent storage core** and a **body-contacting** vaginal discharge receiving layer overlaying the storage core. The **body-contacting** vaginal discharge receiving layer is compressible and is adjustable to conform to the inner labial **surface** texture to fill in channels within the inner labia which transport and collect bodily discharges. The **absorbent storage core** and the **body-contacting** vaginal discharge layer are placed into communication by needle punching. The topsheets are suitable for manufacturing sanitary napkins, tampons, interlabial products, and oral contraceptives.

L19 ANSWER 4 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2003:348806 HCPLUS  
 DOCUMENT NUMBER: 138:343977  
 TITLE: Treated disposable sanitary articles for reducing skin breakdown  
 INVENTOR(S): Sheridan, Christopher H.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S., 7 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| US 6559353             | B1   | 20030506 | US 1995-374907  | 19950119 |
| PRIORITY APPLN. INFO.: |      |          | US 1995-374907  | 19950119 |

AB A disposable waste containment composite is disclosed for fabrication into baby diapers, incontinent briefs, feminine hygiene pads, incontinent under pads and sheets, wound dressings and the like. The composite is formed from a liquid permeable top-sheet, an **absorbent core** and an impermeable backing sheet unified by the use of adhesives, heat and pressure, ultrasonic welding and the like. The composite is characterized in that its topsheet has been treated with a non-aqueous composition comprising propylene glycol, a non-water soluble protectant, and a **surfactant**. The treatment composition can also preferably include an emollient, a deodorant, or a healing agent. A unique feature of the treatment is that the non-water soluble components do not restrict or interfere with the passage of bodily waste into the **absorbent core**. The top sheet so treated delivers in use the protectant and other agents such as the healing agent, to the **surface** of the skin so that when the fabricated article is employed, the incidence of **contact dermatitis**, **skin irritations**, maceration and pressure ulcers are reduced. In addition, the use of this unique topsheet treatment reduces friction which, along with the other benefits, can virtually eliminate the need for sep. using medicated creams, ointments or powders. A com. available diaper topsheet constituting a 15 g/yd square spun bond polypropylene was treated with a composition consisting of propylene glycol 60.00, Silicone SF 18-350 30.00, and N-alkyldimethylbenzylammonium chloride 100.0%.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:210377 HCAPLUS  
 TITLE: Sanitary napkin. [Machine Translation].  
 INVENTOR(S): Noshita, Kako  
 PATENT ASSIGNEE(S): [NAME NOT TRANSLATED], Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2003079663          | A2   | 20030318 | JP 2001-321207  | 20010911 |
| PRIORITY APPLN. INFO.: |      |          | JP 2001-321207  | 20010911 |

AB [Machine Translation of Descriptors]. The napkin is adjusted to the unevenness section of the human **body**, the **touch area** the sanitary napkin which to the utmost small is superior in the fitting impression strange feeling being thin at the time of the paragraph and wearing is offered. Plane **surface** form with the cymbiform (figure 1), at the same time cross section being summary, as acute angle the triangle is formed, as side geometry it reaches to the both ends, we assume, that thin thinly it becomes shape forming and curve condition, in order to parallel to the shape of the installing region, we constitute threeley-dimensional. In order to be possible to leave and the discomfort

due to and friction by the fact that internal constitution has with the **absorber** compression **core** which lies between between the being transparent liquid characteristic **surface** seat and the non- being transparent liquid characteristic back seat and these both seats, increases degree of adhesion with the body, absorbs the blood intensively with apex of the triangle, in minimum it is the sanitary napkin which is formed.

L19 ANSWER 6 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:87076 HCPLUS

DOCUMENT NUMBER: 138:127025

TITLE: Body fluid-absorbing disposable wearing articles

INVENTOR(S): Imai, Shigeo; Suzuki, Sachiyo

PATENT ASSIGNEE(S): Uni Charm Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------|------|----------|-----------------|----------|
| JP 2003033392 | A2   | 20030204 | JP 2001-224714  | 20010725 |

PRIORITY APPLN. INFO.: JP 2001-224714 20010725

AB The absorbent articles (i.e., sanitary napkins and disposable diapers) have a body fluid-**absorbing core** and a liquid-permeable **surface** sheet comprising a nonwoven fabric or a film having open pores. A silicone resin layer and a silicone oil layer are formed in this order on the **surface** side of the **surface** sheet to be in **contact** with the **skin**. The silicone oil layer firmly adheres to the silicone resin layer and enhances flowing of body fluids into the **absorbent core**. Horse blood rapidly ran down the **surface** layer of an inclined film of epoxy-modified silicone- and dimethylsilicone oil-coated polyethylene.

L19 ANSWER 7 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:626035 HCPLUS

DOCUMENT NUMBER: 137:175002

TITLE: Disposable absorbent articles having adhesive gel layer which is brought into **contact** with **skin**

INVENTOR(S): Suzuki, Sachiyo

PATENT ASSIGNEE(S): Uni Charm Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------|------|----------|-----------------|----------|
| JP 2002233551 | A2   | 20020820 | JP 2001-32181   | 20010208 |

PRIORITY APPLN. INFO.: JP 2001-32181 20010208

AB The articles, e.g., sanitary napkins and disposable diapers, have an adhesive gel layer containing crosslinked silicones and oils (m.p.  $\leq 30^\circ$ , b.p.  $\geq 101^\circ$ ). A composition containing Me vinyl silicone, Me hydrogen silicone, an ester oil, and a Pt-based catalyst was applied on a nonwoven fabric comprising polyethylene-polypropylene

core-sheath fibers and thermally cured to give a **surface** sheet showing moisture permeability 430 g/m<sup>2</sup>-24 h and good water repellency of the adhesive layer.

L19 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:548215 HCAPLUS  
 TITLE: Absorbent article having apertures for fecal material  
 INVENTOR(S): Oehmen, Heidi Ann  
 PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA  
 SOURCE: U.S.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| US 6423884             | B1   | 20020723 | US 1996-730648  | 19961011 |
| PRIORITY APPLN. INFO.: |      |          | US 1996-730648  | 19961011 |

AB An absorbent article includes an outer cover and a bodyside liner. A fecal retaining structure having at least one aperture is mounted in the rear portion of the absorbent article. The retaining structure has at least one, preferably multiple, apertures sized to retain exudates from a typical bowel movement and to displace such exudates from the skin of the user. The fecal retaining structure preferably has a **surface** layer on the outer **surface** which **contacts** the **body** of the user. The **surface** layer has a slick **surface** that assists in moving fecal material into the apertures. An **absorbent core** may be mounted in the absorbent article, especially in the front portion of the absorbent article.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:391336 HCAPLUS  
 DOCUMENT NUMBER: 136:374931  
 TITLE: Improved apertured top sheet for absorbent articles  
 INVENTOR(S): Kiyoshi, Inoshita; Dale, Robert; Karszes, William  
 PATENT ASSIGNEE(S): Polymer Group, Inc., USA  
 SOURCE: Eur. Pat. Appl., 10 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE       |
|--|------|----------|-----------------|------------|
| EP 1206944   | A1   | 20020522 | EP 2000-128032  | 20001221   |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO, MK, CY, AL, TR |      |          |                 |            |
| AU 2000072359  | A5   | 20020523 | AU 2000-72359   | 20001218   |
| CN 1352924   | A    | 20020612 | CN 2001-109573  | 20010417   |
| PRIORITY APPLN. INFO.:   |      |          | US 2000-706934  | A 20001106 |

AB In the application and use of absorbent articles, prolonged contact with the material of the sheet, especially in the presence of moisture from exudates or excreta, have an adverse effect on the health of the users skin. It has been found that an improved top sheet material for use in the construction of absorbent articles may be constructed from thermoplastic

polymers mixed with certain **surface** friction reducing agents. These **surface** friction reducing agents are selected from those used in the manufacture of cosmetic materials and are thus known to have no adverse human effect. As the top sheet material is formed from thermally extruded films or fibers, it is requisite of the **surface** friction reducing agents that there is no thermal degradation that adversely effect the contact **surface** or fluidic transfer to the interior elements of an absorbent article. A two-layer film top sheet was made having a top or **skin contact** layer and a bottom or **absorbent core** contact layer. The top layer was composed of the following mixture: ZnO (**surface** friction reducing agent) 1.00, TiO<sub>2</sub> (opacifier) 1.75, and LLDPE 97.25%. The bottom layer was composed of the following mixture; TiO<sub>2</sub> 4.80, Atmer concentrate (wetting agent) 1.50, and ethylene-vinyl acetate copolymer 93.70%. The 2 layers were independently melted and mixed using standard com. extruders. At the combining block, the top layer was proportioned to approx. 35% total film weight and the bottom layer was proportioned to approx. 65% total film weight. The finished 2-layer film top sheet exhibited a nominal thickness of 0.25 mm.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:142456 HCAPLUS  
 DOCUMENT NUMBER: 136:189414  
 TITLE: Improved topsheet for **contacting** hydrous **body** tissues and absorbent device with such a topsheet  
 INVENTOR(S): Bewick-Sonntag, Christopher Philip; Kirkbride, Tana Marie; Osborn, Thomas Ward, III; Ahr, Nicholas Albert  
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA  
 SOURCE: PCT Int. Appl., 126 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 10  
 PATENT INFORMATION:

| PATENT NO.    | KIND   | DATE     | APPLICATION NO. | DATE     |
|---------------|--|----------|-----------------|----------|
| WO 2002013750 | A2   | 20020221 | WO 2001-US24438 | 20010803 |
| WO 2002013750 | A3   | 20021017 |                 |          |
| W:            | AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                 |          |
| RW:           | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |          |
| ZA 9810374    | A  | 19990707 | ZA 1998-10374   | 19981112 |
| CA 2308407    | AA   | 19990527 | CA 1998-2308407 | 19981116 |
| EP 1030637    | A1   | 20000830 | EP 1998-959460  | 19981116 |
| EP 1030637    | B1   | 20030305 |                 |          |
| R:            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI   |          |                 |          |
| BR 9815313    | A  | 20001010 | BR 1998-15313   | 19981116 |
| JP 2001522702 | T2   | 20011120 | JP 2000-520732  | 19981116 |
| AU 745446     | B2   | 20020321 | AU 1999-15253   | 19981116 |

|   |    |          |                  |          |
|---|----|----------|------------------|----------|
| AT 233527   | E  | 20030315 | AT 1998-959460   | 19981116 |
| ES 2193591  | T3 | 20031101 | ES 1998-959460   | 19981116 |
| TW 416847   | B  | 20010101 | TW 1998-87118879 | 19990126 |
| US 6635799  | B1 | 20031021 | US 2000-637440   | 20000811 |
| US 2003191442   | A1 | 20031009 | US 2001-905804   | 20010713 |
| AU 2001079178   | A5 | 20020225 | AU 2001-79178    | 20010803 |
| EP 1311216  | A2 | 20030521 | EP 2001-957431   | 20010803 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO, MK, CY, AL, TR. |    |          |                  |          |
| BR 2001013196   | A  | 20030916 | BR 2001-13196    | 20010803 |
| US 2000-637440 A 20000811   |    |          |                  |          |
| US 2001-905804 A 20010713   |    |          |                  |          |
| US 1997-970510 A 19971114   |    |          |                  |          |
| US 1998-71425 A2 19980501   |    |          |                  |          |
| WO 1998-US24390 W 19981116  |    |          |                  |          |
| WO 2001-US24438 W 20010803  |    |          |                  |          |

PRIORITY APPLN. INFO.:

AB The present invention relates to an improved **body-contacting surface** or topsheet for absorbent devices that come into contact with a wearer's hydrous body tissues. These hydrous body tissues may include, but are not limited to hydrous tissues such as interlabial skin or tissue and mucosal tissues such as vaginal tissues. In one non-limiting embodiment, the topsheet comprises a non-absorbent, moderately hydrophilic to substantially hydrophobic nonwoven web. The topsheet is placed on absorbent devices such as sanitary napkins, tampons, panty liners, interlabial devices, incontinence devices, bandages, and other articles. The present invention further relates to a method of capturing discharges from a source of discharges on a wearer's body in which at least a portion of the source of discharges is located within hydrous membranes having irregular **surfaces** (e.g., a female wearer's interlabial or intervaginal space). The present invention also relates to an absorbent article insertable into the interlabial space of a female wearer which comprises an **absorbent storage core** and a **body-contacting** vaginal discharge receiving layer overlaying the storage core. The **absorbent storage core** and the **body-contacting** vaginal discharge receiving layer are placed into communication by needle punching. In addition, the **absorbent storage core** comprises an integral web of fibrous material and optionally comprises an absorbent gelling material and multiple fenestrations there through. The absorbent article also has an insertion means which can be an applicator or foldable reinforced tab with a folding line which is integral with the article. The product is composed of the following materials. A starch bonded rayon topsheet similar to that used as an overwrap for tampons (in particular TAMPAX tampons). The core material is a carded batt of a 50/50 blend of rayon and cotton blend. A 50% Sarille L rayon fiber is combined with a 50% blend of cotton combers. The backsheet is a polybutylene succinate adipate film colored with Ampacet 110361 available as Bionelle 3001. The backsheet is attached to the topsheet to form a perimeter seal via a crimping operation.

L19 ANSWER 11 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:850722 HCPLUS  
 DOCUMENT NUMBER: 135:376864  
 TITLE: Absorbent article with silicone compound layer  
 INVENTOR(S): Suzuki, Sachiyō  
 PATENT ASSIGNEE(S): Uni-Charm Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 17 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE       |
|--|------|----------|-----------------|------------|
| EP 1155667   | A2   | 20011121 | EP 2001-304226  | 20010511   |
| EP 1155667   | A3   | 20020220 |                 |            |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO |      |          |                 |            |
| JP 2001327533  | A2   | 20011127 | JP 2000-147826  | 20000519   |
| US 2002002357  | A1   | 20020103 | US 2001-854034  | 20010510   |
| US 6531643   | B2   | 20030311 |                 |            |
| SG 98028   | A1   | 20030820 | SG 2001-2911    | 20010516   |
| BR 2001002028  | A    | 20011218 | BR 2001-2028    | 20010517   |
| CN 1325671   | A    | 20011212 | CN 2001-123173  | 20010518   |
| PRIORITY APPLN. INFO.:   |      |          | JP 2000-147826  | A 20000519 |

AB Disclosed is an absorbent article including a liquid-pervious top sheet to be in contact with the skin of a wearer, a back sheet, and an absorbent core sandwiched between the top sheet and the back sheet. A layer of silicone compound is formed on the surface of one of a side sheet provided on each side of the absorbent core, and a side portion of the back sheet extending outwardly from each side of the absorbent core. A UV-curable silicone diluted with solvent was applied to the surface of a polyethylene film to form a silicone layer, the solvent dried, and the coated film exposed to UV rays.

L19 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:830683 HCAPLUS

DOCUMENT NUMBER: 135:362641

TITLE: Sheet with layer containing an oily ingredient and a dextrin ester for absorbent articles

INVENTOR(S): Hisanaka, Takayuki

PATENT ASSIGNEE(S): Uni-Charm Corporation, Japan

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE       |
|--|------|----------|------------------|------------|
| EP 1153617   | A1   | 20011114 | EP 2001-304173   | 20010509   |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO |      |          |                  |            |
| JP 2002085451  | A2   | 20020326 | JP 2001-134877   | 20010502   |
| CA 2346627   | AA   | 20011110 | CA 2001-2346627  | 20010508   |
| US 2001041878  | A1   | 20011115 | US 2001-851862   | 20010509   |
| US 6603053   | B2   | 20030805 |                  |            |
| CN 1323573   | A    | 20011128 | CN 2001-122160   | 20010510   |
| BR 2001001858  | A    | 20011218 | BR 2001-1858     | 20010510   |
| TW 515709  | B    | 20030101 | TW 2001-90111169 | 20010510   |
| PRIORITY APPLN. INFO.:   |      |          | JP 2000-136724   | A 20000510 |

AB A sheet, of which the surface to be in contact with the skin of a wearer has a mixture layer is provided. The mixture layer includes (a) an oily ingredient which is liquid or semi-solid at 25° (30-98%), and (b) an ester compound of dextrin with a fatty acid, e.g., dextrin palmitate (2-70%). A sheet is a nonwoven fabric used for an absorbent article, for protecting wounds, and for skin

wipes. An absorbent article further includes a back sheet and an **absorbent core** sandwiched between the top sheet and the back sheet.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:380341 HCAPLUS  
 DOCUMENT NUMBER: 134:371846  
 TITLE: Absorbent article for maintenance of prolonged natural skin pH values  
 INVENTOR(S): Chmielewski, Harry J.; Erdman, Carol L.  
 PATENT ASSIGNEE(S): Paragon Trade Brands, Inc., USA  
 SOURCE: PCT Int. Appl., 18 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE       |
|---|------|----------|-----------------|------------|
| WO 2001035885   | A1   | 20010525 | WO 2000-US30434 | 20001106   |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |            |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |            |
| US 6459014  | B1   | 20021001 | US 2000-685609  | 20001011   |
| EP 1253896  | A1   | 20021106 | EP 2000-975582  | 20001106   |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR   |      |          |                 |            |
| JP 2003516778   | T2   | 20030520 | JP 2001-537681  | 20001106   |
| PRIORITY APPLN. INFO.:  |      |          | US 1999-165648P | P 19991115 |
|   |      |          | US 2000-685609  | A 20001011 |
|   |      |          | WO 2000-US30434 | W 20001106 |

AB An absorbent article is provided which includes a pH control agent in an amount sufficient to maintain prolonged natural skin pH. The pH control agent can be applied in conjunction with a **surfactant**. Generally, the pH control agent and optional **surfactant** can be added to the top-sheet, **absorbent core**, and/or any tissue layer included in the absorbent article. Particularly preferred pH control agents include citric acid and sodium citrate. An aqueous solution comprising the pH control agent (citric acid) and the **surfactant** was initially produced, and the aqueous solution was then applied to the top-sheet material. Top-sheet samples including 2% citric acid outperformed standard top-sheet in their ability to maintain natural skin pH, while the **skin** was in direct **contact** with high pH liquid. The unexpected ability of top-sheet materials prepared to maintain prolonged natural skin pH even after the skin dried was demonstrated.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1999:595019 HCAPLUS  
 DOCUMENT NUMBER: 131:219215

TITLE: Proton donating actives in absorbent articles for decreasing skin pH  
 INVENTOR(S): Mcosker, Jocelyn Elaine; Roe, Donald Carroll;  
 Franxman, James Joseph; Klofta, Thomas James; Berg,  
 Ronald Wayne  
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA  
 SOURCE: PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND  | DATE     | APPLICATION NO.  | DATE       |
|------------------------|---|----------|------------------|------------|
| WO 9945976             | A1  | 19990916 | WO 1999-US5396   | 19990311   |
| W:                     | AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,<br>CZ, DE, DK, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR,<br>HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,<br>LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,<br>SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM,<br>AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                  |            |
| RW:                    | GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,<br>ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,<br>CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |          |                  |            |
| ZA 9902005             | A   | 19990913 | ZA 1999-2005     | 19990311   |
| CA 2322461             | AA  | 19990916 | CA 1999-2322461  | 19990311   |
| AU 9930820             | A1  | 19990927 | AU 1999-30820    | 19990311   |
| EP 1061964             | A1  | 20001227 | EP 1999-912447   | 19990311   |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI  |          |                  |            |
| JP 2002505918          | T2  | 20020226 | JP 2000-535388   | 19990311   |
| TW 431893              | B   | 20010501 | TW 1999-88103865 | 19990604   |
| US 2002147433          | A1  | 20021010 | US 2002-59614    | 20020129   |
| PRIORITY APPLN. INFO.: |   |          | US 1998-41509    | A 19980312 |
|                        |   |          | WO 1999-US5396   | W 19990311 |

AB An absorbent article that helps maintain a wearer's skin pH in an acidic condition is described. The absorbent article has a **body contacting surface** with a **skin care composition** that is transferred from the **body contacting surface** to the wearer's **skin by contact**, normal wearer motion and/or body heat. The **skin care composition** contains at least one proton donating active. Preferred proton donating actives include: monomeric organic acids, polymeric acids, and inorg. acid salts. The absorbent article also includes a liquid impermeable backsheet and an **absorbent core** positioned between the **body contacting surface** and the backsheet. A lotion containing 5% citric acid decreased skin pH by 1.55. A **skin care composition** for **treatment** of the **surface** of absorbent article contained petrolatum 55, stearyl alc. 39, citric acid 5, and aloe vera extract 1%.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 15 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1997:801996 HCPLUS  
 DOCUMENT NUMBER: 128:62823  
 TITLE: Water-resistant absorbent articles for sanitary napkins or disposable diapers with improved hydrophilic properties of the **surface** materials

INVENTOR(S): Mori, Kazuo; Kanai, Taeko; Kaneda, Manabu; Sakai,

Yoshihiro

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 09322911 | A2   | 19971216 | JP 1996-143141  | 19960605 |
|             |      |          | JP 1996-143141  | 19960605 |

## PRIORITY APPLN. INFO.:

AB The nonwovens comprise mainly polyolefin or polyester fibers and have the **surface** of the nonwoven fabrics for **contacting** **skin** is **treated** with sericins for hydrophilization of the **surface** materials. Conjugate fibers comprising polypropylene core and polyethylene sheath with core-sheath ratio 50:50 were splitted, heat-treated, made into a nonwoven fabric, immersed in a solution containing sericin powder, polyethylene glycol diglycidyl ether, and diethylenetriamine, and heat-treated 10 min at 100° for insolubilization of sericin and give a nonwoven fabric with basis weight 25 g/m<sup>2</sup> and sericin content 1.7%. Diapers of the nonwoven fabric showed good urine absorption properties and no urine leakage by a specified test.

L19 ANSWER 16 OF 16 HCPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:24465 HCPLUS

DOCUMENT NUMBER: 88:24465

TITLE: Laminated product with flat **surface** and absorbent power, for hygienic use

PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.

SOURCE: Belg., 16 pp.

CODEN: BEXXAL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| BE 847515   | A1   | 19770421 | BE 1976-171697  | 19761021 |
| DE 2547650  | A1   | 19770428 | DE 1975-2547650 | 19751024 |
| CH 604579   | A    | 19780915 | CH 1976-13279   | 19761020 |
| FI 7603005  | A    | 19770425 | FI 1976-3005    | 19761021 |
| NL 7611672  | A    | 19770426 | NL 1976-11672   | 19761021 |
| DK 7604775  | A    | 19770425 | DK 1976-4775    | 19761022 |
| SE 7611775  | A    | 19770425 | SE 1976-11775   | 19761022 |
| FR 2328569  | A1   | 19770520 | FR 1976-31850   | 19761022 |
| FR 2328569  | B1   | 19800430 |                 |          |
| BR 7607102  | A    | 19770913 | BR 1976-7102    | 19761022 |
| ZA 7606287  | A    | 19770928 | ZA 1976-6287    | 19761022 |
| GB 1562505  | A    | 19800312 | GB 1976-43957   | 19761022 |
| JP 52054288 | A2   | 19770502 | JP 1976-128160  | 19761025 |
| AU 7618962  | A1   | 19780504 | AU 1976-18962   | 19761025 |
| AU 502431   | B2   | 19790726 |                 |          |
| US 4144886  | A    | 19790320 | US 1976-735445  | 19761026 |

PRIORITY APPLN. INFO.: DE 1975-2547650 19751024

AB Absorbent towels for human body fluids, which did not release absorbed liquid back into **contact** with the **skin** when under

pressure, were prepared by covering a cellulosic flock **absorbent** **core** layer with a unilateral or bilateral tissue layer and overcoating with at least 1 smooth **surface** layer. A towel of this construction retained 75% of absorbed urea after 15 min under 0.050 bars pressure, whereas a towel of conventional construction retained only 52%.

=> d que stat 122  
L11        7179 SEA FILE=HCAPLUS ABB=ON (?BODY? OR ?SKIN?) (4A) (?CONTACT? OR  
            ?TOUCH?)  
L12        2297 SEA FILE=HCAPLUS ABB=ON L11 AND (?SURFAC? OR ?BOUND?)  
L13        16 SEA FILE=HCAPLUS ABB=ON L12 AND ?ABSORB?(3A)?CORE?  
L14        3 SEA FILE=HCAPLUS ABB=ON L13 AND (?SKIN? OR ?DERM? OR ?CUTAN?) (3A)  
            (?CARE? OR ?IMPROV? OR ?TREAT? OR ?BENEFIT?)  
L15        0 SEA FILE=HCAPLUS ABB=ON L13 AND ?SEMISOLID?  
L16        1 SEA FILE=HCAPLUS ABB=ON L13 AND ?SEMI?  
L17        1 SEA FILE=HCAPLUS ABB=ON L13 AND ?SOLID?  
L18        0 SEA FILE=HCAPLUS ABB=ON L13 AND ?VISCOS?  
L19        16 SEA FILE=HCAPLUS ABB=ON L13 OR L14 OR L15 OR L16 OR L17 OR  
            L18  
L20        123 SEA L19  
L21        121 DUP REMOV L20 (2 DUPLICATES REMOVED)  
L22        11 SEA L21 AND (SKIN? OR DERM? OR CUTAN?) (W) (CARE? OR IMPROV? OR  
            TREAT?) (W) (COMPOSIT? OR SUBSTANC? OR MATERIAL? OR PRODUCT?)

=> □

=> d ibib abs 122 1-11

L22 ANSWER 1 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 2003-221489 [21] WPIDS  
 DOC. NO. CPI: C2003-056263  
 TITLE: Article for use in contact with target **surface**,  
 has liquid-permeable porous substrate with preset  
 thickness, beneficial component disposed at preset ratio,  
 and material for minimizing migration of component.  
 DERWENT CLASS: A96 D21 D22 F07  
 INVENTOR(S): GATTO, J A; ISELE, O; KLOFTA, T J; MCNALLY, M G; RULE, J  
 C; STAUDIGEL, J A; STONE, K K; TAYLOR, S L  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 100  
 PATENT INFORMATION:

| PATENT NO     | KIND   | DATE               | WEEK | LA | PG |
|---------------|--|--------------------|------|----|----|
| WO 2003002698 | A2   | 20030109 (200321)* | EN   | 31 |    |
| RW:           | AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ<br>NL OA PT SD SE SL SZ TR TZ UG ZM ZW   |                    |      |    |    |
| W:            | AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK<br>DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR<br>KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT<br>RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW |                    |      |    |    |
| US 2003035824 | A1   | 20030220 (200321)  |      |    |    |

#### APPLICATION DETAILS:

| PATENT NO     | KIND | APPLICATION     | DATE     |
|---------------|------|-----------------|----------|
| WO 2003002698 | A2   | WO 2002-US19699 | 20020621 |
| US 2003035824 | A1   | US 2001-895027  | 20010629 |

PRIORITY APPLN. INFO: US 2001-895027 20010629

AN 2003-221489 [21] WPIDS

AB WO2003002698 A UPAB: 20030328

NOVELTY - An article has a liquid-permeable porous substrate, a releasably-disposed beneficial component, and a material for minimizing migration of component into substrate which has a thickness (Z) as measured from contacting **surface** to opposing **surface**. The ratio of component-quantity present on or within a substrate thickness of 0-Z/3 is at least 2.2 times the quantity within a thickness of 2Z/3-Z, until usage.

DETAILED DESCRIPTION - An article comprises a liquid-permeable porous substrate having oppositely-disposed contacting **surface** and opposing **surface**, a beneficial component releasably disposed on at least a portion of the contacting **surface**, and a material for minimizing migration of the beneficial component into the porous substrate. The substrate has a thickness (Z) as measured from the contacting **surface** to the opposing **surface**. The ratio of the quantity of the beneficial component present on or within a thickness of 0-Z/3 of the substrate is at least about 2.2 times the quantity of the component within a thickness of 2Z/3-Z of the substrate until the time of the use of the article.

An INDEPENDENT CLAIM is included for Top-Biasing a composition on a

porous substrate, which involves applying layer (I) of a relatively hydrophilic component on a porous substrate, applying layer (II) of a relatively hydrophobic component on the relatively hydrophilic component, and allowing layers (I,II) to simultaneously cool on the substrate without the formation of an emulsion.

USE - In absorbent articles, such as training pants, feminine napkins, pantiliners, incontinence garments, breast pads, bed pads and intra labial devices, and in products such as buffs, bandages, mops, cloths, wipes, sponges and other flexible dispensing materials intended for use on inanimate materials.

ADVANTAGE - The article has a treated substrate with improved availability of a beneficial component for transfer to a target surface. The article has a **body-contacting surface** having a **skin-care composition**

disposed on at least a portion. The substrate is extensible in at least one direction, and has discrete zones of extensibility. The top sheet of the article is compliant, soft and non-irritating to the user's skin. The top sheet is liquid-pervious, permitting liquids to readily penetrate to the thickness. The article also contains a conditioning component which improves and/or maintains healthy skin and/or hair of the user. The conditioning component also provides therapeutic **benefits** to the **skin** and/or hair, such as softening, soothing, coating, lubricating and moisturizing. The beneficial component may be in liquid, **semi-solid** or an emulsion form. The beneficial component may comprise a polishing/waxing composition to deposit a wax and/or polish to an inanimate **surface** such as cars, shoes, floors, counters, furniture, wood and/or walls.

DESCRIPTION OF DRAWING(S) - The figure shows the plan view of an absorbent article in the form of a diaper.

Absorbent article 20

Top sheet 24

Backsheet 28

Dwg.1/2

L22 ANSWER 2 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 2001-648313 [74] WPIDS  
 CROSS REFERENCE: 2000-038740 [03]  
 DOC. NO. NON-CPI: N2001-484461  
 DOC. NO. CPI: C2001-191257  
 TITLE: Absorbent article, i.e. diaper for absorbing and containing body exudates, comprises a cuff with a **skin care composition** joined to the chassis and with an elastic member joined to a cuff member using oil resistant adhesive.  
 DERWENT CLASS: A96 B07 D22 F07 P32 P34  
 INVENTOR(S): BLANEY, T L; THORNTON, M A  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 96  
 PATENT INFORMATION:

| PATENT NO     | KIND  | DATE     | WEEK      | LA | PG |
|---------------|---|----------|-----------|----|----|
| WO 2001068026 | A1  | 20010920 | (200174)* | EN | 58 |
| RW:           | AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ |          |           |    |    |
|               | NL OA PT SD SE SL SZ TR TZ UG ZW                                  |          |           |    |    |
| W:            | AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK |          |           |    |    |
|               | DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ |          |           |    |    |
|               | LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD |          |           |    |    |
|               | SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW                |          |           |    |    |
| AU 2001047363 | A   | 20010924 | (200208)  |    |    |

EP 1263382 A1 20021211 (200301) EN  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR  
 BR 2001009280 A 20021217 (200309)  
 KR 2002083178 A 20021101 (200319)  
 US 6533765 B1 20030318 (200322)  
 HU 2003000044 A1 20030528 (200341)  
 CN 1418078 A 20030514 (200355)  
 JP 2003526468 W 20030909 (200360) 75  
 MX 2002008488 A1 20030101 (200373)

## APPLICATION DETAILS:

| PATENT NO     | KIND           | APPLICATION    | DATE     |
|---------------|----------------|----------------|----------|
| WO 2001068026 | A1             | WO 2001-US7757 | 20010309 |
| AU 2001047363 | A              | AU 2001-47363  | 20010309 |
| EP 1263382    | A1             | EP 2001-920292 | 20010309 |
|               |                | WO 2001-US7757 | 20010309 |
| BR 2001009280 | A              | BR 2001-9280   | 20010309 |
|               |                | WO 2001-US7757 | 20010309 |
| KR 2002083178 | A              | KR 2002-712024 | 20020913 |
| US 6533765    | B1 Provisional | US 1998-83913P | 19980501 |
|               | CIP of         | US 1999-301109 | 19990428 |
| HU 2003000044 | A1             | US 2000-526271 | 20000315 |
|               |                | WO 2001-US7757 | 20010309 |
| CN 1418078    | A              | HU 2003-44     | 20010309 |
| JP 2003526468 | W              | CN 2001-806604 | 20010309 |
|               |                | JP 2001-566493 | 20010309 |
| MX 2002008488 | A1             | WO 2001-US7757 | 20010309 |
|               |                | WO 2001-US7757 | 20010309 |
|               |                | MX 2002-8488   | 20020829 |

## FILING DETAILS:

| PATENT NO     | KIND        | PATENT NO     |
|---------------|-------------|---------------|
| AU 2001047363 | A Based on  | WO 2001068026 |
| EP 1263382    | A1 Based on | WO 2001068026 |
| BR 2001009280 | A Based on  | WO 2001068026 |
| US 6533765    | B1 CIP of   | US 6270487    |
| HU 2003000044 | A1 Based on | WO 2001068026 |
| JP 2003526468 | W Based on  | WO 2001068026 |
| MX 2002008488 | A1 Based on | WO 2001068026 |

PRIORITY APPLN. INFO: US 2000-526271 20000315; US 1998-83913P 19980501; US 1999-301109 19990428

AN 2001-648313 [74] WPIDS

CR 2000-038740 [03]

AB WO 200168026 A UPAB: 20031112

NOVELTY - An absorbent article has a cuff joined to a chassis and an amount of a **skin care composition** disposed on the cuff, where the cuff has a cuff member, and an elastic member having opposed elastic ends and the elastic member is joined to the cuff member using an oil resistant adhesive.

DETAILED DESCRIPTION - An absorbent article to be worn by a wearer adjacent the skin comprises a chassis, a cuff joined to the chassis, and an amount of a **skin care composition** (72) disposed on the cuff. The chassis comprises an outer covering layer having a backsheet (42), a liquid pervious topsheet (38) joined to the backsheet,

and an **absorbent core** positioned between the topsheet and the backsheets. The cuff has a first **surface** and a second **surface** disposed opposite the first **surface**. It comprises a cuff member, and an elastic member having opposed elastic ends. The elastic member is joined to the cuff member using an oil resistant adhesive. The adhesive exhibits an apparent **viscosity** of less than 20000 centipoise (cP) at 177 deg. C and less than 100000 cP at 135 deg. C, and a heat of fusion less than 5 J/g. It is a block copolymer, preferably a styrene-isoprene-styrene block copolymer. The **skin care composition** is **semi-solid** or **solid** at 20 deg. C and at least partially transferable to a wearer's **skin** by **contact**, normal wearer motion and/or body heat.

An INDEPENDENT CLAIM is also included for a process for making the absorbent article to be worn by a wearer adjacent the skin, comprising:

- (a) providing the chassis, the cuff and the **skin care composition**;
- (b) joining the cuff to the chassis; and
- (c) disposing an amount of **skin care composition** on the cuff.

**USE** - The inventive absorbent, i.e. a diaper or sanitary napkin (claimed), is used for absorbing and containing body exudates (e.g., menses and urine). It can also be training pants, adult incontinence devices, feminine garments, incontinent briefs or undergarments.

**ADVANTAGE** - The invention provides elastic components, which maintain their integrity in the presence of oleaginous **skin care compositions**. It can be processed and effectively adhesively bonded at higher **viscosities**. It provides a controlled application of the **skin care composition** to deliver the low but effective levels of composition required. It provides a barrier to **surface** moisture while avoiding occlusion of the skin (i.e., maintaining skin breathability). Thus, it allows transfer of optimal levels of the composition to the skin to maintain and/or **improve skin health**. The adhesive used is material friendly and process friendly.

**DESCRIPTION OF DRAWING(S)** - The figure shows a perspective view of an absorbent article in the form of a disposable diaper.

Topsheet 38

Backsheet 42

Gasketing cuff 56

Barrier leg cuff 62

**Skin care composition** 72

Dwg. 4/5

L22 ANSWER 3 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 2001-137608 [14] WPIDS  
 DOC. NO. NON-CPI: N2001-100274  
 DOC. NO. CPI: C2001-040296  
 TITLE: **Skin care composition** for use in articles such as diapers, training pants, adult incontinence devices, sanitary napkins, panty liners or bed pads comprises carrier, **skin care** ingredient and rheological agent.  
 DERWENT CLASS: A96 D21 D22 E19 F07 P34  
 INVENTOR(S): CRAMER, R D; GATTO, J A; HANSER, T R; KLOFTA, T J; ROE, D C; STAUDIGEL, J A  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO; (KLOF-I) KLOFTA T J; (ROED-I) ROE D C  
 COUNTRY COUNT: 93  
 PATENT INFORMATION:

| PATENT NO   | KIND | DATE     | WEEK      | LA | PG |
|---|------|----------|-----------|----|----|
| WO 2000071177   | A1   | 20001130 | (200114)* | EN | 65 |
| RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ<br>NL OA PT SD SE SL SZ TZ UG ZW  |      |          |           |    |    |
| W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES<br>FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS<br>LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL<br>TJ TM TR TT TZ UA UG UZ VN YU ZA ZW |      |          |           |    |    |
| AU 2000048583   | A    | 20001212 | (200115)  |    |    |
| EP 1178844  | A1   | 20020213 | (200219)  | EN |    |
| R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT<br>RO SE SI  |      |          |           |    |    |
| US 2002165508   | A1   | 20021107 | (200275)  |    |    |
| TW 476639   | A    | 20020221 | (200305)  |    |    |
| JP 2003500115   | W    | 20030107 | (200314)  | 79 |    |
| US 6570054  | B1   | 20030527 | (200337)  |    |    |
| MX 2001011794   | A1   | 20020501 | (200368)  |    |    |
| US 2003195486   | A1   | 20031016 | (200369)  |    |    |

## APPLICATION DETAILS:

| PATENT NO     | KIND      | APPLICATION     | DATE     |
|---------------|-----------|-----------------|----------|
| WO 2000071177 | A1        | WO 2000-US13849 | 20000519 |
| AU 2000048583 | A         | AU 2000-48583   | 20000519 |
| EP 1178844    | A1        | EP 2000-930827  | 20000519 |
|               |           | WO 2000-US13849 | 20000519 |
| US 2002165508 | A1 CIP of | US 1999-316691  | 19990521 |
|               | Div ex    | US 2000-563638  | 20000502 |
|               |           | US 2002-54628   | 20020122 |
| TW 476639     | A         | TW 2000-109768  | 20000520 |
| JP 2003500115 | W         | JP 2000-619478  | 20000519 |
|               |           | WO 2000-US13849 | 20000519 |
| US 6570054    | B1 CIP of | US 1999-316691  | 19990521 |
|               |           | US 2000-563638  | 20000502 |
| MX 2001011794 | A1        | WO 2000-US13849 | 20000519 |
|               |           | MX 2001-11794   | 20011116 |
| US 2003195486 | A1 CIP of | US 1999-316691  | 19990521 |
|               | Cont of   | US 2000-563638  | 20000502 |
|               |           | US 2003-417459  | 20030416 |

## FILING DETAILS:

| PATENT NO     | KIND        | PATENT NO     |
|---------------|-------------|---------------|
| AU 2000048583 | A Based on  | WO 2000071177 |
| EP 1178844    | A1 Based on | WO 2000071177 |
| JP 2003500115 | W Based on  | WO 2000071177 |
| MX 2001011794 | A1 Based on | WO 2000071177 |
| US 2003195486 | A1 Cont of  | US 6570054    |

PRIORITY APPLN. INFO: US 2000-563638 20000502; US 1999-316691  
19990521; US 2002-54628 20020122; US  
2003-417459 20030416

AN 2001-137608 [14] WPIDS

AB WO 2000071177 A UPAB: 20010312

NOVELTY - A **skin care composition** present in  
an article comprises carrier (5-95%) (by weight), at least one

**skin care** ingredient (0.001-70) and rheological agent (0.1-25). The composition has

- (i) an elastic modulus of at least 5 dynes/cm<sup>2</sup> (measured at 0.2% strain rate, oscillation frequency 10 rad/sec and 77 deg. C),
- (ii) melting temperature of at least 35 deg. C
- (iii) **solid or semi-solid** consistency.

at 20 deg. C.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a process for applying a **skin care composition** to a substrate, involving forming the **skin care composition** and applying the composition on at least a portion of a substrate, preferably a **skin-contacting surface** of an article. The substrate comprises 0.0078-15.6 mg/cm<sup>2</sup> of the composition.

USE - As disposable absorbent product such as diaper, training pant, adult incontinence device, sanitary napkin, panty liner or bed pads.

ADVANTAGE - The **skin care composition** is transferred by normal **contact**, wearer motion and/or **body** heat to the **skin surface**. The rheological agent stabilizes the composition by minimizing agglomeration, stratification and/or settling and by modifying **viscosity**. The composition is easily applied to substrate **surface** without particulate plugging to the application element. The composition protects or **improves** the **skin** condition against chaffing, overhydration or itching. A smooth, silky, non-grainy skin feel is provided and abrasion of chaffing, drying or rashes is minimized. The composition is anhydrous in nature, hence wicking of highly **absorbent** diaper **core** is avoided. The composition can be easily applied to the substrate **surface**. A special barrier or wrapping material is unnecessary for packing the treated article. The **absorbent core** of the diaper is compressible, conformable and non-irritating to the wearer's skin. The film present on the **body contact surface** of diaper is dry, hence reducing body soiling and creating a comfortable feeling to the wearer. The composition is delivered continuously and automatically onto the **skin surface** from the article.

Dwg.0/3

L22 ANSWER 4 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 2001-049794 [06] WPIDS  
 CROSS REFERENCE: 2001-040989 [05]; 2001-049792 [06]; 2001-049793 [06];  
 2001-061160 [07]  
 DOC. NO. NON-CPI: N2001-038190  
 DOC. NO. CPI: C2001-013648  
 TITLE: Absorbent article for use in feminine hygiene garments,  
 diapers, incontinence devices etc. with a **body**  
**contacting surface** and an  
**absorbent core**, comprises a  
**skin care composition**.  
 DERWENT CLASS: A96 B07 D22 F07 P34  
 INVENTOR(S): GRAY, B F; MINOGUCHI, R; NIIHARA, K; WARREN, R  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 91  
 PATENT INFORMATION:

| PATENT NO     | KIND  | DATE               | WEEK | LA | PG |
|---------------|---|--------------------|------|----|----|
| WO 2000069485 | A1  | 20001123 (200106)* | EN   | 70 |    |
| RW:           | AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ |                    |      |    |    |
|               | NL OA PT SD SE SL SZ TZ UG ZW                                     |                    |      |    |    |

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES  
 FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
 LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL  
 TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
 AU 2000050333 A 20001205 (200113)  
 KR 2002018199 A 20020307 (200261)

## APPLICATION DETAILS:

| PATENT NO     | KIND | APPLICATION     | DATE     |
|---------------|------|-----------------|----------|
| WO 2000069485 | A1   | WO 2000-US13851 | 20000519 |
| AU 2000050333 | A    | AU 2000-50333   | 20000519 |
| KR 2002018199 | A    | KR 2001-714748  | 20011119 |

## FILING DETAILS:

| PATENT NO     | KIND | PATENT NO              |
|---------------|------|------------------------|
| AU 2000050333 | A    | Based on WO 2000069485 |

PRIORITY APPLN. INFO: WO 1999-US11372 19990521; WO 1999-US10986  
 19990519; WO 1999-US11330 19990521; WO  
 1999-US11374 19990521

AN 2001-049794 [06] WPIDS  
 CR 2001-040989 [05]; 2001-049792 [06]; 2001-049793 [06]; 2001-061160 [07]  
 AB WO 200069485 A UPAB: 20020924

**NOVELTY** - An absorbent article comprising a **body contacting surface** and an **absorbent core** where at least a portion of the **body contacting surface** comprises a **skin care composition** which is **solid or semisolid** at 40 deg. C and which is transferable from the **surface to the wearer's skin by contact, normal wearer motion and body heat**, is new.

**DETAILED DESCRIPTION** - A new absorbent article comprises a **body contacting surface** and an **absorbent core** where at least a portion of the **body contacting surface** comprises a **skin care composition** which is **a solid or semisolid** at 40 deg. C and which is transferable from the **surface to the wearer's skin by contact, normal wearer motion and body heat**. The **skin care composition** comprises about 10-95 % emollient and about 5-90 % of an agent capable of immobilizing the emollient, where the immobilizing agent comprises a particle thickener selected from silica, treated silica, polymethacrylate polymers, polymethacrylate and styrene copolymers, calcium silicate, treated calcium silicate, treated bentonite, treated hectorite and mixtures thereof.

**USE** - The absorbent article is used in feminine hygiene products such as sanitary napkins and panti-liners, diapers, training pants, adult incontinence devices, diaper holders etc.

**ADVANTAGE** - The absorbent article has **improved skin care benefits**.

Dwg. 0/5

L22 ANSWER 5 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 2001-049793 [06] WPIDS  
 CROSS REFERENCE: 2001-040989 [05]; 2001-049792 [06]; 2001-049794 [06];  
 2001-061160 [07]

DOC. NO. NON-CPI: N2001-038189  
 DOC. NO. CPI: C2001-013647  
 TITLE: Absorbent article with body contacting surface and absorbent core comprising skin care composition for use in e.g. feminine hygiene garments, diapers and incontinence devices.  
 DERWENT CLASS: A96 B07 D22 F07 P32 P34  
 INVENTOR(S): DECKNER, G E; GRAY, B F; MINOGUCHI, R; NIIHARA, K;  
 SCHMIDT, R R; WARREN, R  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 93  
 PATENT INFORMATION:

| PATENT NO  | KIND  | DATE     | WEEK      | LA | PG |
|--|---|----------|-----------|----|----|
| <hr/>  |   |          |           |    |    |
| WO 2000069484  | A1  | 20001123 | (200106)* | EN | 81 |
| RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ<br>NL OA PT SD SE SL SZ TZ UG ZW |   |          |           |    |    |
| W:   | AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES<br>FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS<br>LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL<br>TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW |          |           |    |    |
| AU 2000051465  | A   | 20001205 | (200113)  |    |    |
| EP 1178845   | A1  | 20020213 | (200219)  | EN |    |
| R:   | AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT<br>RO SE SI   |          |           |    |    |
| TW 446556  | A   | 20010721 | (200219)  |    |    |
| KR 2002018199  | A   | 20020307 | (200261)  |    |    |
| JP 2003527147  | W   | 20030916 | (200362)  | 93 |    |
| MX 2001011795  | A1  | 20020501 | (200368)  |    |    |

## APPLICATION DETAILS:

| PATENT NO     | KIND | APPLICATION     | DATE     |
|---------------|------|-----------------|----------|
| WO 2000069484 | A1   | WO 2000-US13842 | 20000519 |
| AU 2000051465 | A    | AU 2000-51465   | 20000519 |
| EP 1178845    | A1   | EP 2000-936104  | 20000519 |
|               |      | WO 2000-US13842 | 20000519 |
| TW 446556     | A    | TW 2000-109675  | 20000519 |
| KR 2002018199 | A    | KR 2001-714748  | 20011119 |
| JP 2003527147 | W    | JP 2000-617944  | 20000519 |
|               |      | WO 2000-US13842 | 20000519 |
| MX 2001011795 | A1   | WO 2000-US13842 | 20000519 |
|               |      | MX 2001-11795   | 20011116 |

## FILING DETAILS:

| PATENT NO     | KIND | PATENT NO              |
|---------------|------|------------------------|
| AU 2000051465 | A    | Based on WO 2000069484 |
| EP 1178845    | A1   | Based on WO 2000069484 |
| JP 2003527147 | W    | Based on WO 2000069484 |
| MX 2001011795 | A1   | Based on WO 2000069484 |

PRIORITY APPLN. INFO: WO 1999-US11374 19990521; WO 1999-US10986  
 19990519; WO 1999-US11330 19990521; WO  
 1999-US11372 19990521

AN 2001-049793 [06] WPIDS

CR 2001-040989 [05]; 2001-049792 [06]; 2001-049794 [06]; 2001-061160 [07]  
 AB WO 200069484 A UPAB: 20031022

**NOVELTY** - An absorbent article comprising a **body contacting surface** and an **absorbent core** wherein at least a portion of the **body contacting surface** comprises a **skin care composition** which is **solid** or **semi-solid** at 40 deg. C and which is transferable from the **body contacting surface** to the wearer's **skin by contact**, normal motion and **body heat**.

**DETAILED DESCRIPTION** - An absorbent article comprising a **body contacting surface** and an **absorbent core** wherein at least a portion of the **body contacting surface** comprises a **skin care composition** which is **solid** or **semi-solid** at 40 deg. C and which is transferable from the **body contacting surface** to the wearer's **skin by contact**, normal motion and **body heat** and wherein the **skin care composition** has **viscosity** of more than about 105 Poise under shear stress of less than about 3 x 104 dynes/cm<sup>2</sup> and **viscosity** of less than about 102 Poise under shear stress of more than about 106 dynes/cm<sup>2</sup> at 40 deg. C.

An INDEPENDENT CLAIM is made for an absorbent article as above wherein the **skin care composition** additionally comprises a **skin care active ingredient**.

**USE** - The absorbent article may be used in feminine hygiene garments e.g. sanitary napkins and panty-liners, diapers, training pants, adult incontinence devices and diaper holders.

**ADVANTAGE** - The absorbent article has **improved skin care qualities**.

Dwg.0/5

L22 ANSWER 6 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 2001-049792 [06] WPIDS  
 CROSS REFERENCE: 2001-040989 [66]; 2001-049793 [66]; 2001-049794 [66];  
 2001-061160 [66]  
 DOC. NO. NON-CPI: N2001-038188  
 DOC. NO. CPI: C2001-013646  
 TITLE: Absorbent article with **body contacting surface** and **absorbent core** comprising **skin care composition** for use in e.g. feminine hygiene garments, diapers and incontinence devices.  
 DERWENT CLASS: A96 B07 D22 F07 P34  
 INVENTOR(S): DECKNER, G E; GRAY, B F; MINOGUCHI, R; NIIHARA, K;  
 SCHMIDT, R R; WARREN, R  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 86  
 PATENT INFORMATION:

| PATENT NO  | KIND DATE | WEEK | LA | PG |
|--|-----------|------|----|----|
| WO 2000069481 A1 20001123 (200106)* EN   |           | 73   |    |    |
| RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL<br>OA PT SD SE SL SZ UG ZW   |           |      |    |    |
| W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB<br>GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU<br>LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR<br>TT UA UG US UZ VN YU ZA ZW |           |      |    |    |

AU 9941983 A 20001205 (200113)

## APPLICATION DETAILS:

| PATENT NO     | KIND | APPLICATION     | DATE     |
|---------------|------|-----------------|----------|
| WO 2000069481 | A1   | WO 1999-US11374 | 19990521 |
| AU 9941983    | A    | AU 1999-41983   | 19990521 |

## FILING DETAILS:

| PATENT NO  | KIND       | PATENT NO     |
|------------|------------|---------------|
| AU 9941983 | A Based on | WO 2000069481 |

PRIORITY APPLN. INFO: WO 1999-US10986 19990519

AN 2001-049792 [06] WPIDS

CR 2001-040989 [66]; 2001-049793 [66]; 2001-049794 [66]; 2001-061160 [66]

AB WO 200069481 A UPAB: 20010307

**NOVELTY** - An absorbent article comprising a **body contacting surface** and an **absorbent core** wherein at least a portion of the **body contacting surface** comprises a **skin care composition** which is **solid or semi-solid** at 40 deg. C and which is transferable from the **body contacting surface** to the wearer's **skin** by **contact**, normal wearer motion and **body heat**, wherein the **skin care composition** comprises a **skin care active ingredient**.

**DETAILED DESCRIPTION** - An absorbent article comprising a **body contacting surface** and an **absorbent core** wherein at least a portion of the **body contacting surface** comprises a **skin care composition** which is **solid or semi-solid** at 40 deg. C and which is transferable from the **body contacting surface** to the wearer's **skin** by **contact**, normal wearer motion and **body heat**, wherein the **skin care composition**

comprises a **skin care active ingredient** and wherein the **skin care composition** has a **viscosity** of more than about 105 Poise under shear stress of less than about 3X10<sup>4</sup>dynes/cm<sup>2</sup> and **viscosity** of less than about 102 Poise under shear stress of more than about 106 dynes/cm<sup>2</sup> at 40 deg. C.

**USE** - The absorbent article may include feminine hygiene products such as sanitary napkins and panti-liners, diapers, training pants, adult incontinence devices and diaper holders.

**ADVANTAGE** - The absorbent article has **improved skin care qualities**.

Dwg.0/5

L22 ANSWER 7 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 2001-040989 [05] WPIDS

CROSS REFERENCE: 2001-049792 [06]; 2001-049793 [06]; 2001-049794 [06];  
2001-061160 [07]

DOC. NO. NON-CPI: N2001-030556

DOC. NO. CPI: C2001-011889

TITLE: New absorbent article, e.g. nappy or feminine hygiene article, comprises **body contacting surface** containing **skin care composition**, and **absorbent core**

DERWENT CLASS: A96 B07 D22 F07 P34  
 INVENTOR(S): GRAY, B F; MINOGUCHI, R; NIIHARA, K; WARREN, R; DECKNER, G E; SCHMIDT, R R  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 86  
 PATENT INFORMATION:

| PATENT NO  | KIND | DATE     | WEEK      | LA | PG |
|--|------|----------|-----------|----|----|
| WO 2000069482  | A1   | 20001123 | (200105)* | EN | 73 |
| RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL<br>OA PT SD SE SL SZ UG ZW   |      |          |           |    |    |
| W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB<br>GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU<br>LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR<br>TT UA UG US UZ VN YU ZA ZW |      |          |           |    |    |
| AU 9941981   | A    | 20001205 | (200113)  |    |    |
| MX 2001011793  | A1   | 20020501 | (200368)  |    |    |
| MX 2001011795  | A1   | 20020501 | (200368)  |    |    |

## APPLICATION DETAILS:

| PATENT NO     | KIND | APPLICATION     | DATE     |
|---------------|------|-----------------|----------|
| WO 2000069482 | A1   | WO 1999-US11372 | 19990521 |
| AU 9941981    | A    | AU 1999-41981   | 19990521 |
| MX 2001011793 | A1   | WO 1999-US11372 | 19990521 |
|               |      | MX 2001-11793   | 20011116 |
| MX 2001011795 | A1   | WO 2000-US13842 | 20000519 |
|               |      | MX 2001-11795   | 20011116 |

## FILING DETAILS:

| PATENT NO     | KIND        | PATENT NO     |
|---------------|-------------|---------------|
| AU 9941981    | A Based on  | WO 2000069482 |
| MX 2001011793 | A1 Based on | WO 2000069482 |
| MX 2001011795 | A1 Based on | WO 2000069484 |

PRIORITY APPLN. INFO: WO 1999-US10986 19990519; WO 1999-US11330 19990521; WO 1999-US11374 19990521

AN 2001-040989 [05] WPIDS  
 CR 2001-049792 [06]; 2001-049793 [06]; 2001-049794 [06]; 2001-061160 [07]

AB WO 2000069482 A UPAB: 20031022

NOVELTY - Absorbent article comprises a **body contacting surface** and an **absorbent core**. At least a portion of the **body contacting surface** comprises a **skin care composition** which is **solid** at 40 deg. C and which is transferable from the **body contacting surface** to the wearer's **skin** by **contact**, normal wearer motion and **body heat**.

DETAILED DESCRIPTION - Absorbent article comprises a **body contacting surface** and an **absorbent core**. At least a portion of the **body contacting surface** comprises a **skin care composition** which is **solid** at 40 deg. C and which is transferable from the **body contacting surface** to the wearer's **skin** by **contact**, normal wearer motion and **body heat** at a level effective in providing a **skin**

**benefit to the wearer's skin.** The **skin care composition** comprises an emollient (about 10-95%) and an agent capable of immobilizing the emollient (about 5-90%). The immobilizing agent comprises a particle thickener selected from optionally treated silica, polymethacrylate polymers, polymethacrylate and styrene copolymers, optionally treated calcium silicate, treated bentonite, treated hectorite and mixtures of these.

**USE** - The absorbent article is a feminine hygiene garment, a diaper, training pants, adult incontinence device or diaper holder.  
Dwg.0/5

L22 ANSWER 8 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 2000-023241 [02] WPIDS  
 CROSS REFERENCE: 2000-013330 [01]; 2000-023242 [02]; 2000-147019 [13]  
 DOC. NO. NON-CPI: N2000-017319  
 DOC. NO. CPI: C2000-005618  
 TITLE: Absorbent articles e.g. nappies, incontinent briefs, training parts, nappy holders and liners, sanitary hygiene garments.  
 DERWENT CLASS: D22 F07 P32  
 INVENTOR(S): ARNDT, S; EHRNSPERGER, B J; KREUZER, C H; LAVON, G D; SCHMIDT, M; STOELZEL, C P; SLOELZEL, C P  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 87  
 PATENT INFORMATION:

| PATENT NO  | KIND | DATE               | WEEK | LA | PG |
|--|------|--------------------|------|----|----|
| WO 9955264   | A1   | 19991104 (200002)* | EN   | 84 |    |
| RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL<br>OA PT SD SE SL SZ UG ZW   |      |                    |      |    |    |
| W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB<br>GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU<br>LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR<br>TT UA UG US UZ VN YU ZA ZW |      |                    |      |    |    |
| AU 9931641   | A    | 19991116 (200015)  |      |    |    |
| BR 9910052   | A    | 20001226 (200103)  |      |    |    |
| EP 1075240   | A1   | 20010214 (200111)  | EN   |    |    |
| R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE   |      |                    |      |    |    |
| CZ 2000003916 A3   |      | 20010912 (200158)  |      |    |    |
| HU 2001002691 A2   |      | 20011128 (200209)  |      |    |    |
| JP 2002512846 W  |      | 20020508 (200234)  |      | 94 |    |
| NZ 507503  | A    | 20030926 (200366)  |      |    |    |

## APPLICATION DETAILS:

| PATENT NO        | KIND | APPLICATION    | DATE     |
|------------------|------|----------------|----------|
| WO 9955264       | A1   | WO 1999-IB741  | 19990423 |
| AU 9931641       | A    | AU 1999-31641  | 19990423 |
| BR 9910052       | A    | BR 1999-10052  | 19990423 |
|                  |      | WO 1999-IB741  | 19990423 |
| EP 1075240       | A1   | EP 1999-913535 | 19990423 |
|                  |      | WO 1999-IB741  | 19990423 |
| CZ 2000003916 A3 |      | WO 1999-IB741  | 19990423 |
|                  |      | CZ 2000-3916   | 19990423 |
| HU 2001002691 A2 |      | WO 1999-IB741  | 19990423 |
|                  |      | HU 2001-2691   | 19990423 |
| JP 2002512846 W  |      | WO 1999-IB741  | 19990423 |
|                  |      | JP 2000-545471 | 19990423 |

NZ 507503 A

NZ 1999-507503 19990423  
WO 1999-IB741 19990423

## FILING DETAILS:

| PATENT NO     | KIND        | PATENT NO  |
|---------------|-------------|------------|
| AU 9931641    | A Based on  | WO 9955264 |
| BR 9910052    | A Based on  | WO 9955264 |
| EP 1075240    | A1 Based on | WO 9955264 |
| CZ 2000003916 | A3 Based on | WO 9955264 |
| HU 2001002691 | A2 Based on | WO 9955264 |
| JP 2002512846 | W Based on  | WO 9955264 |
| NZ 507503     | A Based on  | WO 9955264 |

PRIORITY APPLN. INFO: WO 1998-US8515 19980428

AN 2000-023241 [02] WPIDS

CR 2000-013330 [01]; 2000-023242 [02]; 2000-147019 [13]

AB WO 9955264 A UPAB: 20031014

NOVELTY - The absorbent capacity is determined in the segments of the absorbent article, along the vertical axis by whole article vertical wicking test, at a point away from the fold lines of the article. The absorbent capacity in at least one of the segments at 13.5 cm, is at least 0.5 times (preferably at least two times) the capacity of the segment at 0 cm.

USE - Used as nappies, incontinent briefs, training pants, nappy holders and liners, sanitary hygiene garments.

ADVANTAGE - The absorbent article provides improved fitting and is comfortable to the user especially when the article is wetted with body fluids.

DESCRIPTION OF DRAWING(S) - The figure shows the top view of a nappy.

Top sheet; 22

Back sheet; 24

**Absorbent core;** 28

Crotch part; 27

Crotch region 56

Dwg.1/8

L22 ANSWER 9 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 1999-551227 [46] WPIDS

DOC. NO. NON-CPI: N1999-407895

DOC. NO. CPI: C1999-160871

TITLE: Body fluid absorbent article containing proton donating active.

DERWENT CLASS: A96 B07 D22 F07 P32 P34 P73

INVENTOR(S): BERG, R W; FRANXMAN, J J; KLOFTA, T J; MCOSKER, J E; ROE, D C; WARREN, R

PATENT ASSIGNEE(S): (PROC) PROCTER &amp; GAMBLE CO; (BERG-I) BERG R W; (FRAN-I) FRANXMAN J J; (KLOF-I) KLOFTA T J; (MCOS-I) MCOSKER J E; (ROED-I) ROE D C; (WARR-I) WARREN R

COUNTRY COUNT: 87

PATENT INFORMATION:

| PATENT NO | KIND | DATE | WEEK | LA | PG |
|-----------|------|------|------|----|----|
|-----------|------|------|------|----|----|

WO 9945976 A1 19990916 (199946)\* EN 60

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL  
OA PT SD SE SL SZ UG ZWW: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD  
GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV

MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
 UA UG UZ VN YU ZW

|  |    |                   |    |
|--|----|-------------------|----|
| ZA 9902005   | A  | 19991124 (200001) | 59 |
| AU 9930820   | A  | 19990927 (200006) |    |
| EP 1061964   | A1 | 20001227 (200102) | EN |
| R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE |    |                   |    |
| KR 2001041821  | A  | 20010525 (200168) |    |
| TW 431893  | A  | 20010501 (200168) |    |
| MX 2000008933  | A1 | 20010301 (200170) |    |
| JP 2002505918  | W  | 20020226 (200219) | 82 |
| US 2002147433  | A1 | 20021010 (200269) |    |
| KR 375532  | B  | 20030328 (200354) |    |

## APPLICATION DETAILS:

| PATENT NO     | KIND       | APPLICATION    | DATE     |
|---------------|------------|----------------|----------|
| WO 9945976    | A1         | WO 1999-US5396 | 19990311 |
| ZA 9902005    | A          | ZA 1999-2005   | 19990311 |
| AU 9930820    | A          | AU 1999-30820  | 19990311 |
| EP 1061964    | A1         | EP 1999-912447 | 19990311 |
|               |            | WO 1999-US5396 | 19990311 |
| KR 2001041821 | A          | KR 2000-710105 | 20000909 |
| TW 431893     | A          | TW 1999-103865 | 19990604 |
| MX 2000008933 | A1         | MX 2000-8933   | 20000912 |
| JP 2002505918 | W          | WO 1999-US5396 | 19990311 |
|               |            | JP 2000-535388 | 19990311 |
| US 2002147433 | A1 Cont of | US 1998-41509  | 19980312 |
|               |            | US 2002-59614  | 20020129 |
| KR 375532     | B          | WO 1999-US5396 | 19990311 |
|               |            | KR 2000-710105 | 20000909 |

## FILING DETAILS:

| PATENT NO     | KIND                         | PATENT NO                   |
|---------------|------------------------------|-----------------------------|
| AU 9930820    | A Based on                   | WO 9945976                  |
| EP 1061964    | A1 Based on                  | WO 9945976                  |
| JP 2002505918 | W Based on                   | WO 9945976                  |
| KR 375532     | B Previous Publ.<br>Based on | KR 2001041821<br>WO 9945976 |

PRIORITY APPLN. INFO: US 1998-41509 19980312; US 2002-59614  
 20020129

AN 1999-551227 [46] WPIDS

AB WO 9945976 A UPAB: 20011203

NOVELTY - Absorbent article includes a **skin care composition** comprising a proton donating active and a continuous phase of oleaginous materials.

DETAILED DESCRIPTION - Absorbent article comprises:

(1) a **body contacting surface** having a **skin care composition** on at least one part;  
 (2) a liquid impermeable backsheet and  
 (3) an **absorbent core** between the **body contacting surface** and backsheet.

The **skin care composition** is transferable from the **body contacting surface** to the wearer's **skin** by **contact**, normal wearer motion and/or body heat and comprises at least one proton donating active and a continuous phase comprising oleaginous materials.

USE - Used for absorption of body fluids deposited by a wearer and for helping maintain the skin pH at an acidic level. The composition is used on diapers, training pants, adult incontinence pads and briefs, and feminine hygiene products, including sanitary napkins, panty liners and tampons, to prevent development of rash and irritation.

ADVANTAGE - The proton donating active maintains skin pH in a slightly acidic condition after insult by bodily exudates which reduces resulting redness and inflammation.

Dwg. 0/2

L22 ANSWER 10 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 1999-214902 [18] WPIDS  
 DOC. NO. CPI: C1999-063282  
 TITLE: Absorbent article e.g. nappy having **skin care composition on surface**.  
 DERWENT CLASS: D22 F07  
 INVENTOR(S): DOBRIN, G C; ELDER, G L; HERRLEIN, M K; MILBRADA, E J;  
 PLISCHKE, M; RIJSWIJCK, L G S; ROE, R C; RULE, J C; ROE,  
 D C; VAN RIJSWIJCK, L G S; VAN RIJSWIJCK, L; VAN  
 RIJSWIJCK, L G  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 84  
 PATENT INFORMATION:

| PATENT NO  | KIND | DATE               | WEEK | LA  | PG |
|--|------|--------------------|------|-----|----|
| WO 9912504   | A1   | 19990318 (199918)* | EN   | 90  |    |
| RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL<br>OA PT SD SE SZ UG ZW  |      |                    |      |     |    |
| W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE<br>GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK<br>MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ<br>VN YU ZW |      |                    |      |     |    |
| ZA 9808117   | A    | 19990526 (199927)  |      | 86  |    |
| AU 9888184   | A    | 19990329 (199932)  |      |     |    |
| EP 1011581   | A1   | 20000628 (200035)  | EN   |     |    |
| R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE   |      |                    |      |     |    |
| US 6107537   | A    | 20000822 (200042)  |      |     |    |
| BR 9813011   | A    | 20000815 (200045)  |      |     |    |
| CZ 2000000856  | A3   | 20000913 (200054)  |      |     |    |
| HU 2000003536  | A2   | 20010228 (200121)  |      |     |    |
| CN 1278714   | A    | 20010103 (200124)  |      |     |    |
| TW 418083  | A    | 20010111 (200132)  |      |     |    |
| KR 2001023825  | A    | 20010326 (200161)  |      |     |    |
| MX 2000002481  | A1   | 20010101 (200166)  |      |     |    |
| JP 2001515754  | W    | 20010925 (200170)  |      | 110 |    |
| EP 1011581   | B1   | 20031008 (200370)  | EN   |     |    |
| R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE   |      |                    |      |     |    |
| HU 222430  | B1   | 20030728 (200379)  |      |     |    |
| DE 69818844  | E    | 20031113 (200382)  |      |     |    |

#### APPLICATION DETAILS:

| PATENT NO  | KIND | APPLICATION    | DATE     |
|------------|------|----------------|----------|
| WO 9912504 | A1   | WO 1998-IB1343 | 19980828 |
| ZA 9808117 | A    | ZA 1998-8117   | 19980904 |
| AU 9888184 | A    | AU 1998-88184  | 19980828 |
| EP 1011581 | A1   | EP 1998-939784 | 19980828 |
|            |      | WO 1998-IB1343 | 19980828 |

|               |    |                |          |
|---------------|----|----------------|----------|
| US 6107537    | A  | US 1997-926566 | 19970910 |
| BR 9813011    | A  | BR 1998-13011  | 19980828 |
| CZ 2000000856 | A3 | WO 1998-IB1343 | 19980828 |
| HU 2000003536 | A2 | WO 1998-IB1343 | 19980828 |
| CN 1278714    | A  | CZ 2000-856    | 19980828 |
| TW 418083     | A  | WO 1998-IB1343 | 19980828 |
| KR 2001023825 | A  | HU 2000-3536   | 19980828 |
| MX 2000002481 | A1 | CN 1998-810992 | 19980828 |
| JP 2001515754 | W  | WO 1998-IB1343 | 19980828 |
| EP 1011581    | B1 | TW 1998-115077 | 19980910 |
| HU 222430     | B1 | KR 2000-702500 | 20000309 |
| DE 69818844   | E  | MX 2000-2481   | 20000310 |
|               |    | WO 1998-IB1343 | 19980828 |
|               |    | JP 2000-510404 | 19980828 |
|               |    | EP 1998-939784 | 19980828 |
|               |    | WO 1998-IB1343 | 19980828 |
|               |    | WO 1998-IB1343 | 19980828 |
|               |    | HU 2000-3536   | 19980828 |
|               |    | DE 1998-618844 | 19980828 |
|               |    | EP 1998-939784 | 19980828 |
|               |    | WO 1998-IB1343 | 19980828 |

## FILING DETAILS:

| PATENT NO     | KIND | PATENT NO |            |
|---------------|------|-----------|------------|
| AU 9888184    | A    | Based on  | WO 9912504 |
| EP 1011581    | A1   | Based on  | WO 9912504 |
| BR 9813011    | A    | Based on  | WO 9912504 |
| CZ 2000000856 | A3   | Based on  | WO 9912504 |
| HU 2000003536 | A2   | Based on  | WO 9912504 |
| JP 2001515754 | W    | Based on  | WO 9912504 |
| EP 1011581    | B1   | Based on  | WO 9912504 |
| HU 222430     | B1   | Based on  | WO 9912504 |
| DE 69818844   | E    | Based on  | EP 1011581 |
|               |      | Based on  | WO 9912504 |

PRIORITY APPLN. INFO: US 1997-926566 19970910

AN 1999-214902 [18] WPIDS

AB WO 9912504 A UPAB: 19990511

NOVELTY - An absorbent article e.g. a diaper (20) etc. has on its skin contacting face (54) a skin care composition for beneficial transfer to the skin and a liquid impermeable back sheet (26) with a mass vapor transmission rate over 500 gram per square meter per 24 hour and an absorbent core (28) there between.

USE - In absorbing body excretions.

ADVANTAGE - reduces loss of skin condition in wear.

DESCRIPTION OF DRAWING(S) - The drawing shows a plan view of a diaper.

skin contact surface 54

back sheet 26

core 28

Dwg.1/5

L22 ANSWER 11 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

ACCESSION NUMBER: 1998-332996 [29] WPIDS

CROSS REFERENCE: 1995-231601 [30]; 1996-277489 [28]; 1998-041860 [04];  
1998-377206 [32]; 1999-561583 [47]; 2003-447291 [42]

DOC. NO. NON-CPI: N1998-259928

DOC. NO. CPI: C1998-103148  
 TITLE: Absorbent article worn adjacent to skin - comprises chassis comprising outer covering layer comprising liquid pervious top sheet joined to back sheet and absorbent core and cuff joined to chassis.  
 DERWENT CLASS: A96 B07 D21 D22 F07 P32 P34 P73  
 INVENTOR(S): ROE, D C; SCHULTE, T E; VANRIJSWIJCK, L G S; ELDER, G L; VANRIJSWIJCK, L; ELDER, G; THOMAS, E S  
 PATENT ASSIGNEE(S): (PROC) PROCTER & GAMBLE CO  
 COUNTRY COUNT: 82  
 PATENT INFORMATION:

| PATENT NO   | KIND  | DATE               | WEEK | LA | PG |
|---|---|--------------------|------|----|----|
| <hr/>   |   |                    |      |    |    |
| WO 9824390  | A2  | 19980611 (199829)* | EN   | 67 |    |
| RW: AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT |   |                    |      |    |    |
|   | SD SE SZ UG ZW  |                    |      |    |    |
| W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE  |   |                    |      |    |    |
|   | GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN |                    |      |    |    |
| MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN     |   |                    |      |    |    |
|   | YU ZW   |                    |      |    |    |
| CA 2223361  | A   | 19980603 (199839)  |      |    |    |
| CA 2223382  | A   | 19980603 (199839)  |      |    |    |
| ZA 9710752  | A   | 19980826 (199840)  |      | 67 |    |
| AU 9853721  | A   | 19980629 (199845)  |      |    |    |
| TW 357080   | A   | 19990501 (199937)  |      |    |    |
| NO 9902679  | A   | 19990803 (199941)  |      |    |    |
| CZ 9901994  | A3  | 19991117 (200002)  |      |    |    |
| EP 967949   | A2  | 20000105 (200006)  | EN   |    |    |
|   | R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE             |                    |      |    |    |
| BR 9713681  | A   | 20000328 (200029)  |      |    |    |
| CN 1251534  | A   | 20000426 (200036)  |      |    |    |
| US 6120488  | A   | 20000919 (200048)  |      |    |    |
| US 6156024  | A   | 20001205 (200066)  |      |    |    |
| US 6166285  | A   | 20001226 (200103)  |      |    |    |
| HU 2000003235   | A2  | 20010131 (200118)  |      |    |    |
| KR 2000069286   | A   | 20001125 (200130)  |      |    |    |
| JP 2001314440   | A   | 20011113 (200207)  |      | 25 |    |
| CA 2223382  | C   | 20020416 (200234)  | EN   |    |    |
| JP 2002509457   | W   | 20020326 (200236)  |      | 91 |    |
| US 6476288  | B1  | 20021105 (200276)  |      |    |    |
| CA 2223361  | C   | 20030128 (200319)  | EN   |    |    |
| TW 508232   | A   | 20021101 (200352)  |      |    |    |
| MX 9905171  | A1  | 20030701 (200366)  |      |    |    |
| MX 210189   | B   | 20020905 (200368)  |      |    |    |

## APPLICATION DETAILS:

| PATENT NO  | KIND | APPLICATION     | DATE     |
|------------|------|-----------------|----------|
| <hr/>      |      |                 |          |
| WO 9824390 | A2   | WO 1997-US22190 | 19971203 |
| CA 2223361 | A    | CA 1997-2223361 | 19971203 |
| CA 2223382 | A    | CA 1997-2223382 | 19971203 |
| ZA 9710752 | A    | ZA 1997-10752   | 19971128 |
| AU 9853721 | A    | AU 1998-53721   | 19971203 |
| TW 357080  | A    | TW 1998-100900  | 19980123 |
| NO 9902679 | A    | WO 1997-US22190 | 19971203 |
|            |      | NO 1999-2679    | 19990602 |
| CZ 9901994 | A3   | WO 1997-US22190 | 19971203 |

|               |           |                 |          |
|---------------|-----------|-----------------|----------|
|               |           | CZ 1999-1994    | 19971203 |
| EP 967949     | A2        | EP 1997-950824  | 19971203 |
|               |           | WO 1997-US22190 | 19971203 |
| BR 9713681    | A         | BR 1997-13681   | 19971203 |
|               |           | WO 1997-US22190 | 19971203 |
| CN 1251534    | A         | CN 1997-181502  | 19971203 |
| US 6120488    | A Cont of | US 1994-345159  | 19941128 |
|               | CIP of    | US 1996-766386  | 19961203 |
|               | CIP of    | US 1997-884069  | 19970627 |
|               | CIP of    | US 1997-908852  | 19970808 |
|               |           | US 1997-962312  | 19971031 |
| US 6156024    | A         | US 1996-766386  | 19961203 |
| US 6166285    | A Cont of | US 1994-345159  | 19941128 |
|               | CIP of    | US 1996-766386  | 19961203 |
|               | CIP of    | US 1997-884069  | 19970627 |
|               | CIP of    | US 1997-908852  | 19970808 |
|               |           | US 1997-962310  | 19971031 |
| HU 2000003235 | A2        | WO 1997-US22190 | 19971203 |
|               |           | HU 2000-3235    | 19971203 |
| KR 2000069286 | A         | WO 1997-US22190 | 19971203 |
|               |           | KR 1999-704923  | 19990603 |
| JP 2001314440 | A Div ex  | JP 1998-525777  | 19971203 |
|               |           | JP 2001-69303   | 19971203 |
| CA 2223382    | C         | CA 1997-2223382 | 19971203 |
| JP 2002509457 | W         | WO 1997-US22190 | 19971203 |
|               |           | JP 1998-525776  | 19971203 |
| US 6476288    | B1 CIP of | US 1994-345159  | 19941128 |
|               | CIP of    | US 1996-766386  | 19961203 |
|               | CIP of    | US 1997-884069  | 19970627 |
|               | CIP of    | US 1997-908852  | 19970808 |
|               | Div ex    | US 1997-962312  | 19971031 |
|               |           | US 2000-507659  | 20000222 |
| CA 2223361    | C         | CA 1997-2223361 | 19971203 |
| TW 508232     | A         | TW 1998-100982  | 19980123 |
| MX 9905171    | A1        | WO 1997-US22190 | 19971203 |
|               |           | MX 1999-5171    | 19990603 |
| MX 210189     | B         | WO 1997-US22191 | 19971203 |
|               |           | MX 1999-5172    | 19990603 |

## FILING DETAILS:

| PATENT NO     | KIND        | PATENT NO  |
|---------------|-------------|------------|
| AU 9853721    | A Based on  | WO 9824390 |
| CZ 9901994    | A3 Based on | WO 9824390 |
| EP 967949     | A2 Based on | WO 9824390 |
| BR 9713681    | A Based on  | WO 9824390 |
| US 6120488    | A Cont of   | US 5463588 |
| US 6166285    | A Cont of   | US 5463588 |
| HU 2000003235 | A2 Based on | WO 9824390 |
| KR 2000069286 | A Based on  | WO 9824390 |
| JP 2002509457 | W Based on  | WO 9824390 |
| US 6476288    | B1 CIP of   | US 5643588 |
|               | CIP of      | US 6118041 |
|               | Div ex      | US 6120488 |
|               | CIP of      | US 6156024 |
| MX 9905171    | A1 Based on | WO 9824390 |

PRIORITY APPLN. INFO: US 1997-962312 19971031; US 1996-766386  
 19961203; US 1997-962310 19971031; US

1994-345159 19941128; US 1997-884069  
19970627; US 1997-908852 19970808; US  
2000-507659 20000222

AN 1998-332996 [29] WPIDS

CR 1995-231601 [30]; 1996-277489 [28]; 1998-041860 [04]; 1998-377206 [32];  
1999-561583 [47]; 2003-447291 [42]

AB WO 9824390 A UPAB: 20031022

An absorbent article worn by a wearer adjacent the skin comprises a chassis comprising an outer covering layer comprising a back sheet, liquid pervious top sheet joined to the back sheet and an **absorbent core** positioned between the back sheet and top sheet. A cuff joined to the chassis has a first **surface** and a second **surface** opposite the first **surface** and contains a **skin care composition** on the cuff. The composition is a **solid** or a **semisolid** at 20 deg. C and is at least partially transferable to a wearer's skin.

The **skin care composition** preferably comprises: (i) 10-95% emollient having a plastic or fluid consistency at 20 deg. C and (ii) 5-90% of an agent capable of immobilising the emollient on the cuff. The emollient comprises petroleum based emollients, fatty acid ester emollients, polysiloxane emollients, sucrose ester fatty acid emollients, and/or alkyl ethoxylate emollients. The immobilising agent is selected from polyhydroxy fatty acid esters, polyhydroxy fatty acid amides, 14-22C fatty alcohols, 12-22C fatty acids, and/or 12-22C fatty alcohol ethoxylates.

USE - The absorbent article is used for diapers, training pants, adult incontinence devices, sanitary napkins and feminine garments.

ADVANTAGE - The lotion is transferable to the wearer's **skin** by normal **contact** and wearer motion and/or body heat. The lotion minimises abrasion between the cuffs and the skin in the area where the cuff **contacts** the **skin** and results in reduced skin irritation. The lotion does not adversely affect the absorbency of the article and does not require special wrapping or barrier materials for packaging.

Dwg.0/11